

Figure 1

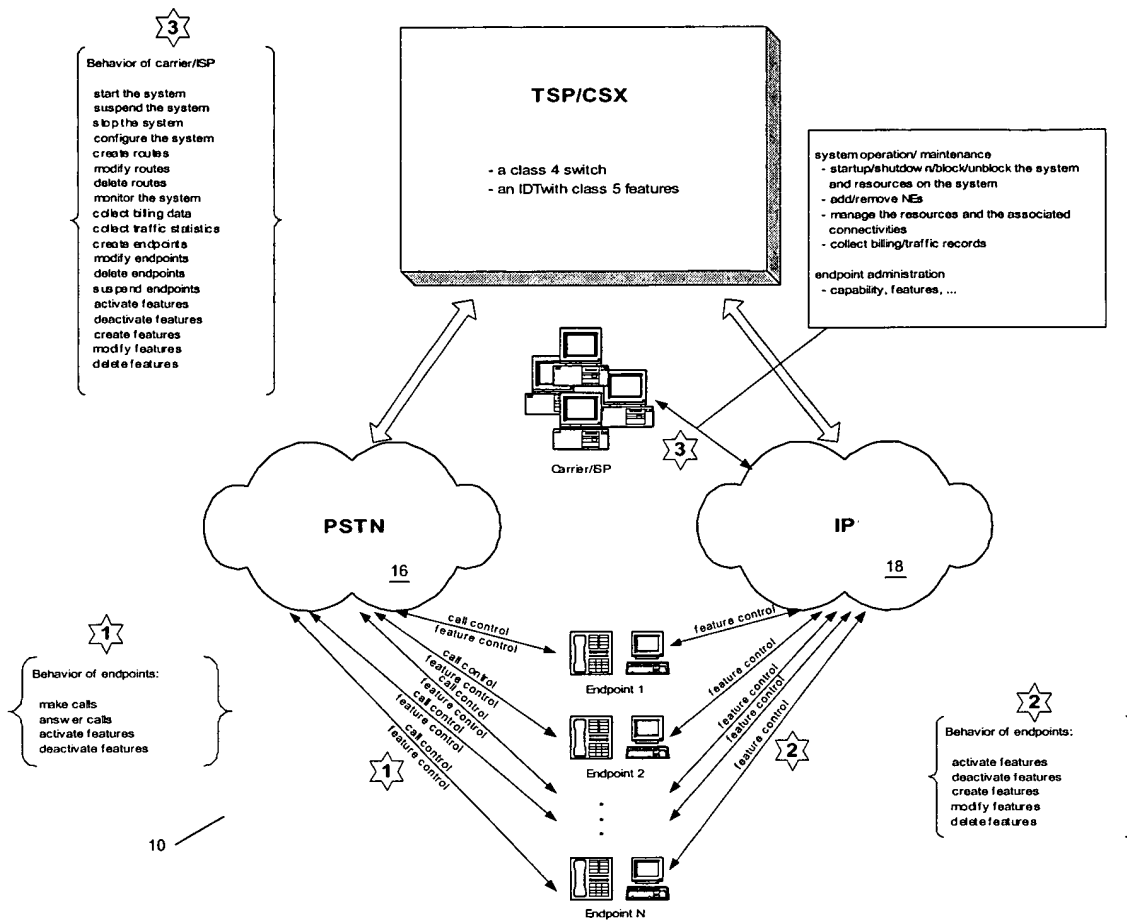


Figure 2

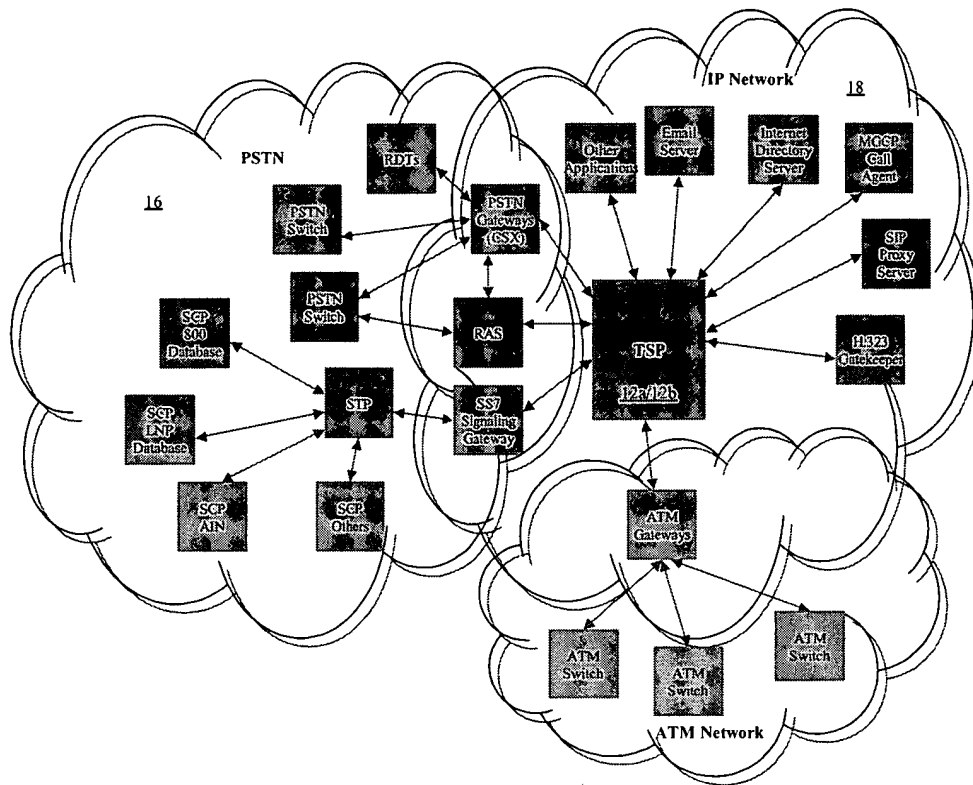


Figure 3

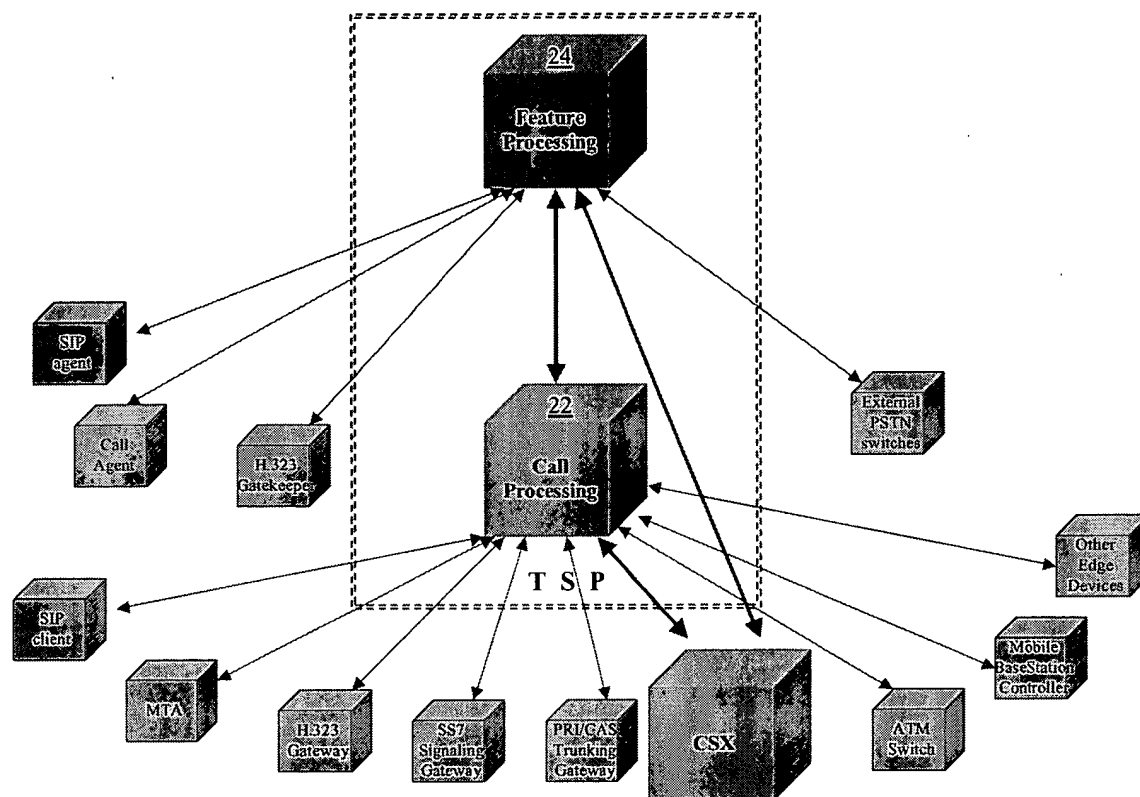


Figure 4

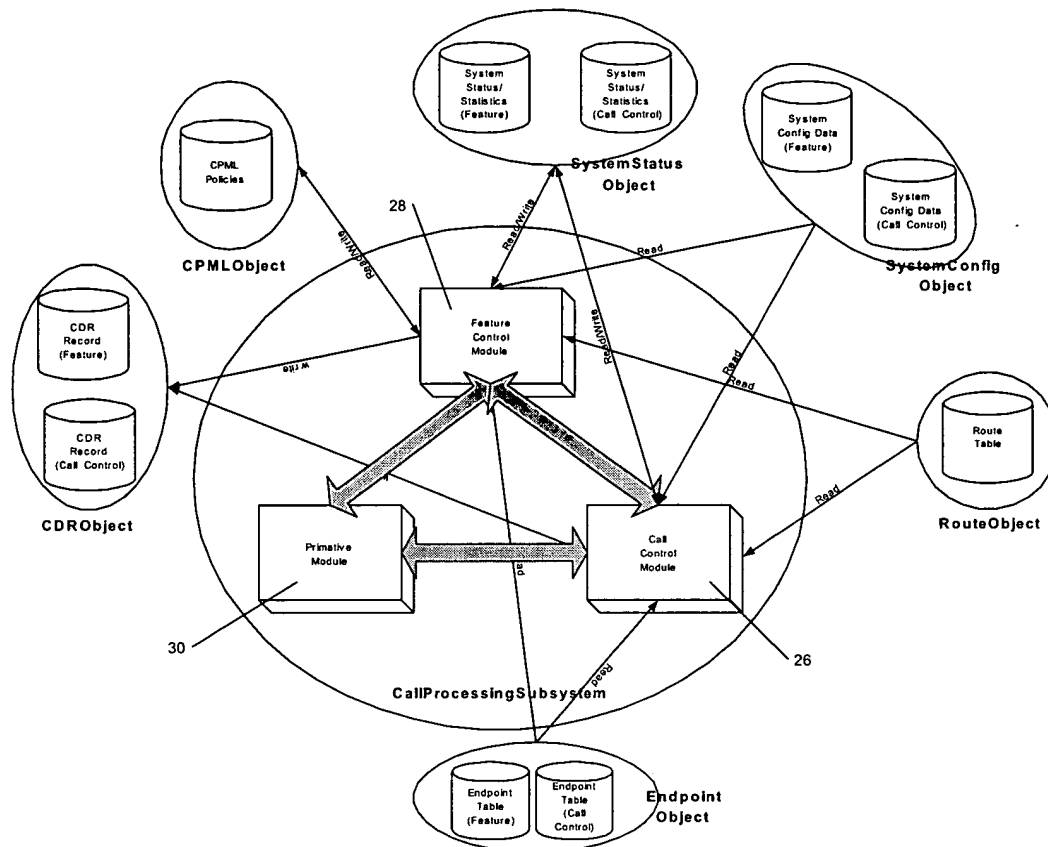


Figure 5

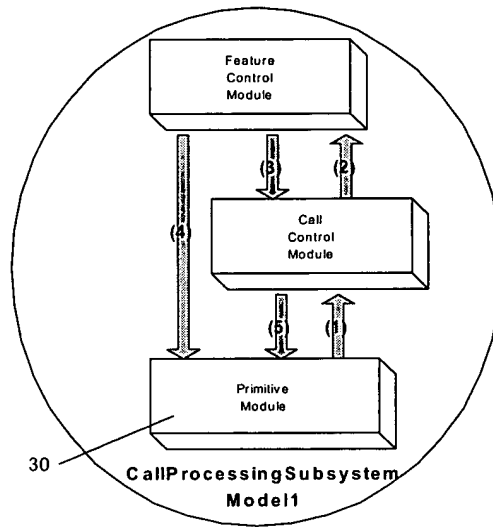


Figure 6A

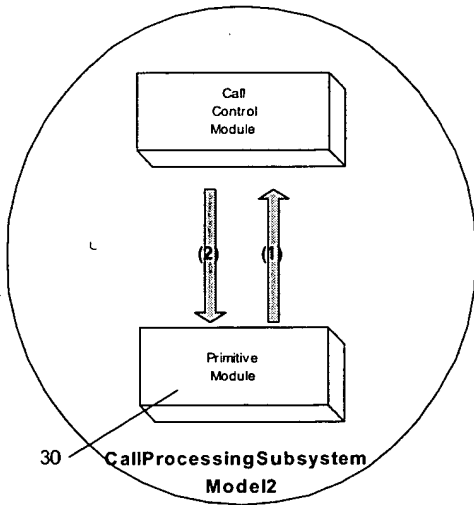


Figure 6B

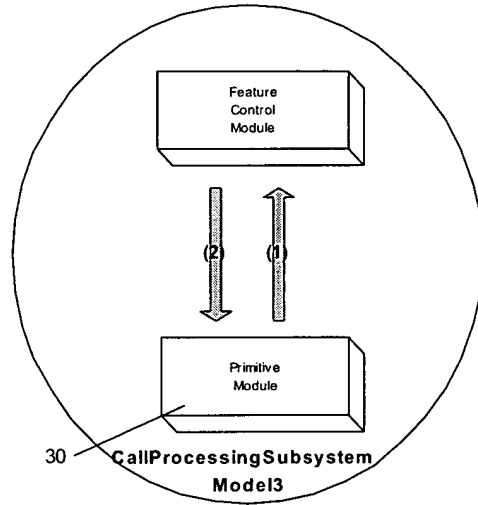


Figure 6C

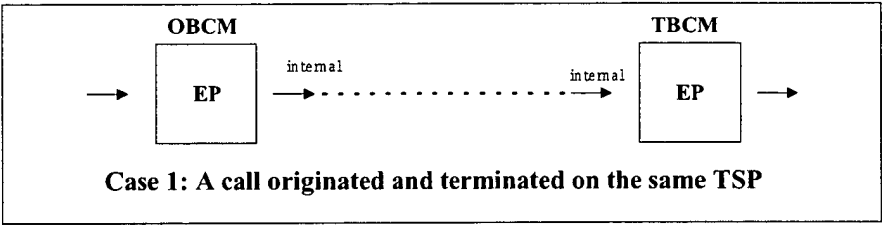


Figure 7A

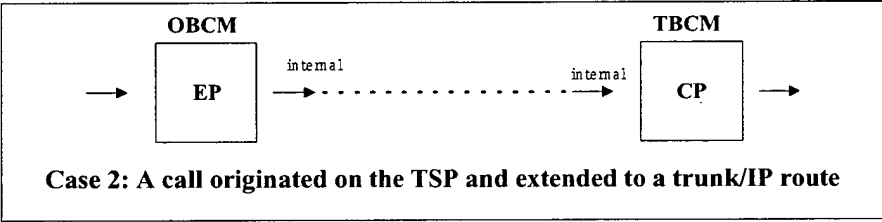


Figure 7B

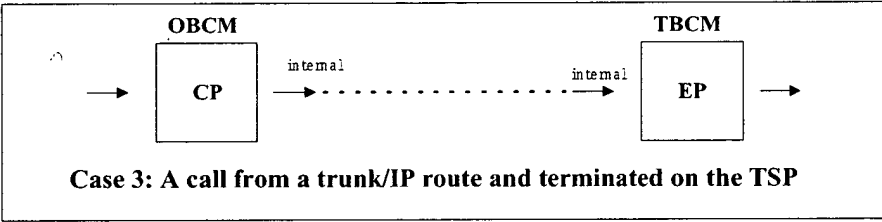


Figure 7C

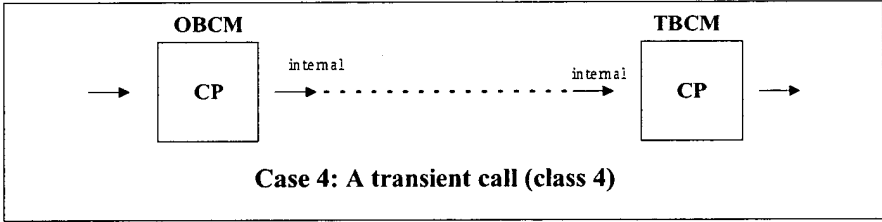


Figure 7D

Approved for Release 2001/08/01 : CIA-RDP80-01060A000100010001-6

30A

Feature Mask	Feature Logic Object
000	NULL
001	CND_FLO
010	CFBL_FLO
011	CFBL_FLO
100	CW_FLO
101	CW_CND_FLO
110	CW_CFBL_FLO
111	CW_CFBL_CND_FLO

feature mask = abc where

bit a – Call Waiting (CW)

bit b – Call Forwarding Busy Line (CFBL)

bit c – Calling Number Delivery (CND)

User defined features are not included in this table.

Figure 8

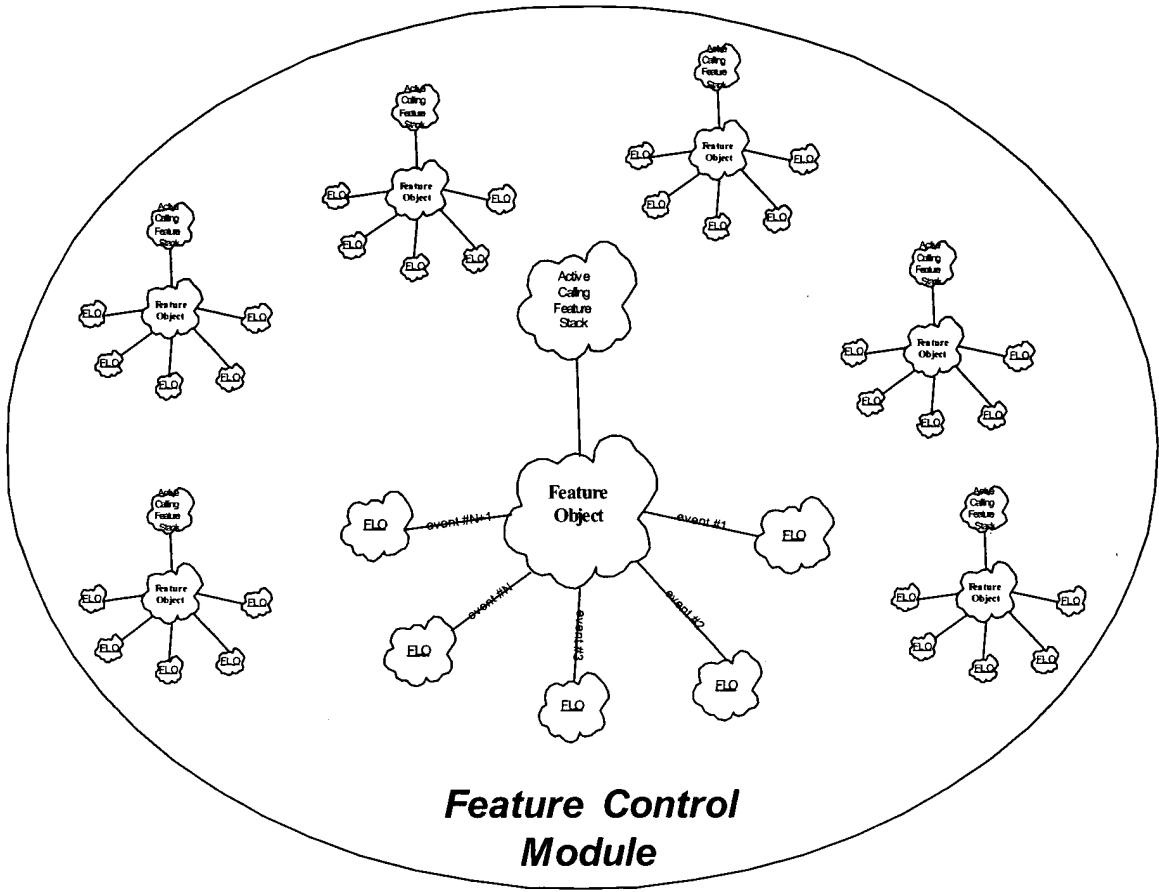


Figure 9

FIG. 9

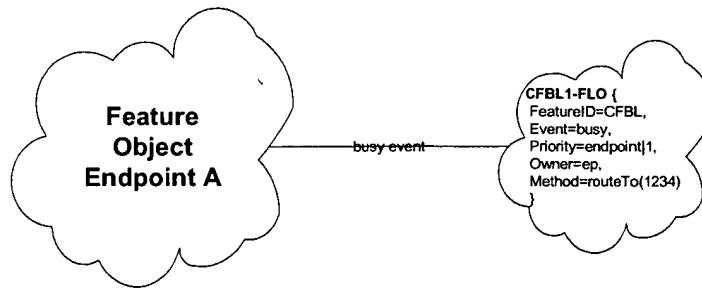


Figure 10A

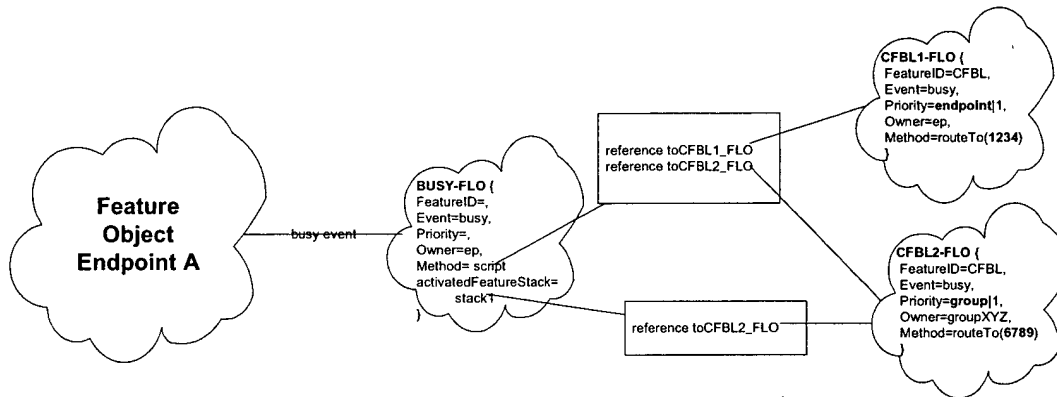


Figure 10B

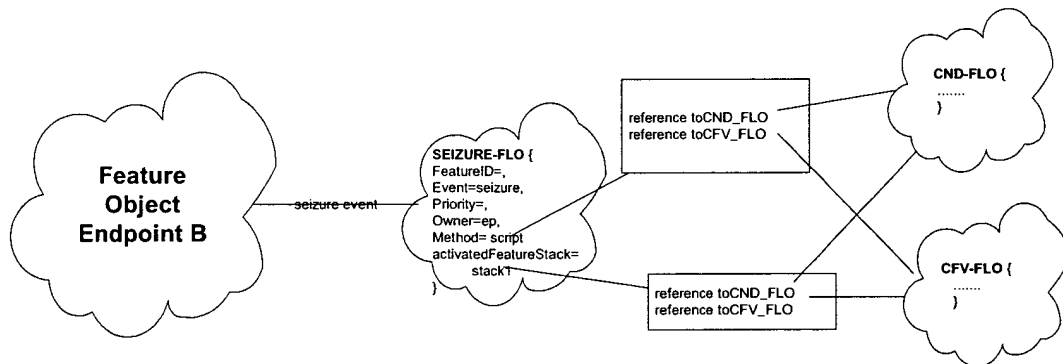


Figure 10C

FIG. 10A

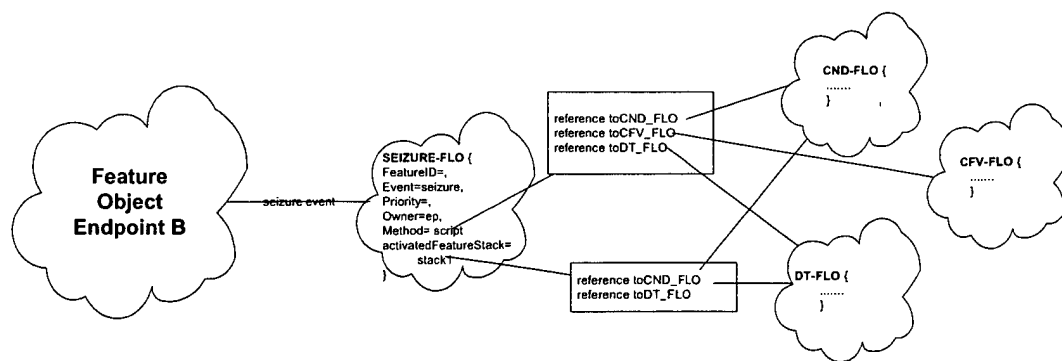


Figure 10D

FIG. 10D

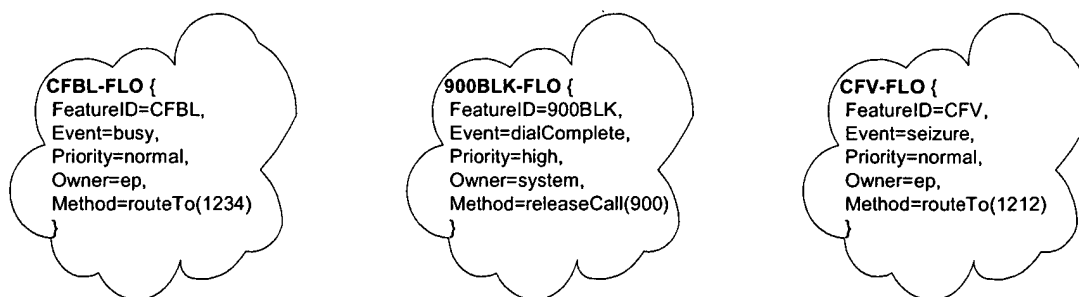


Figure 11A

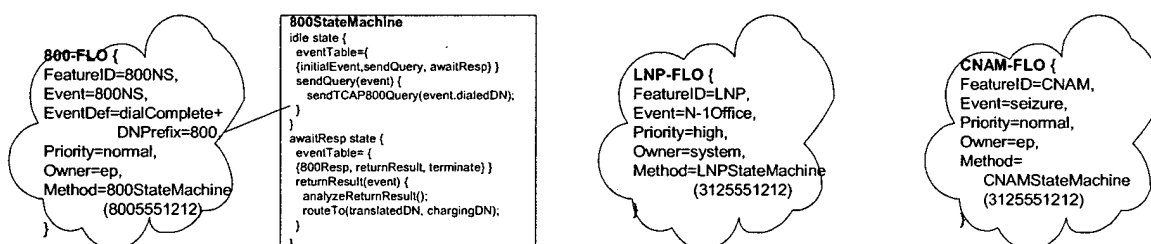


Figure 11B

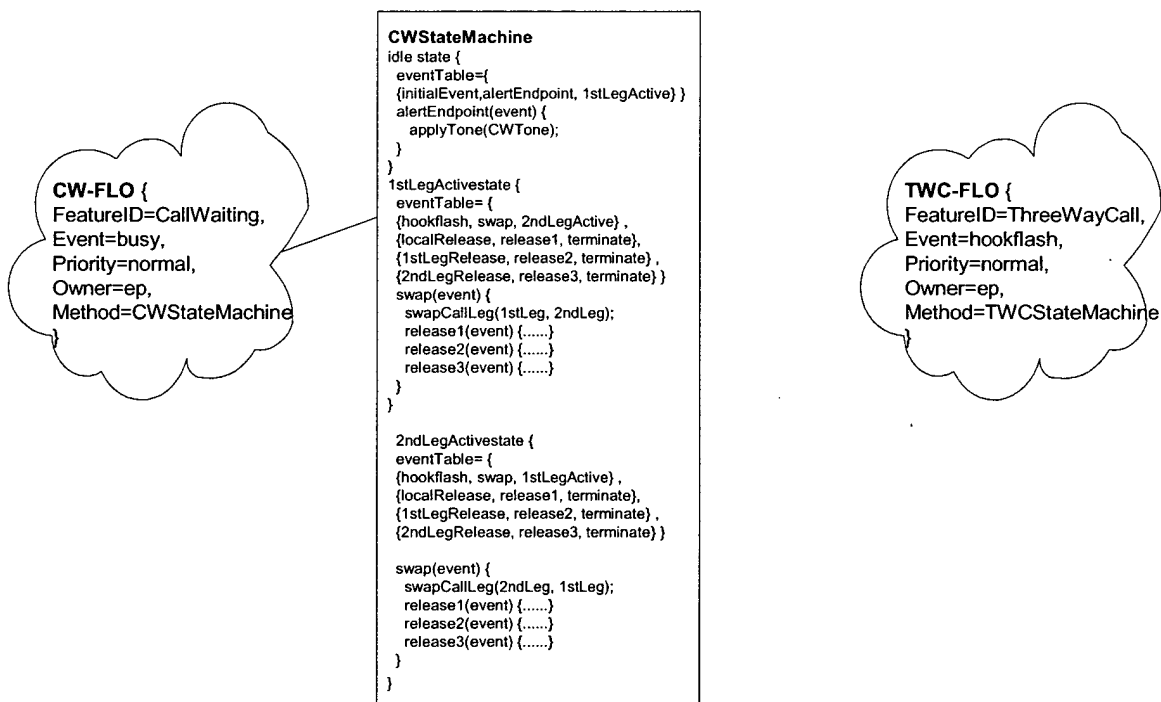


Figure 11C

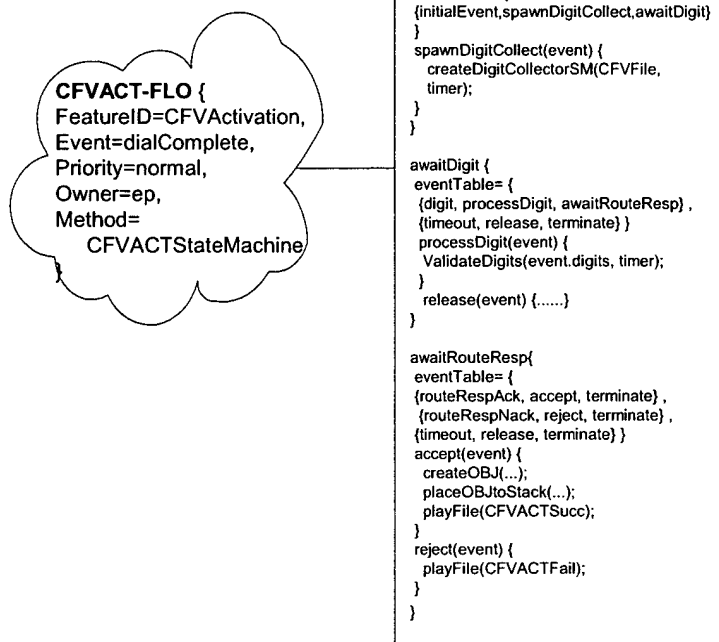


Figure 11D

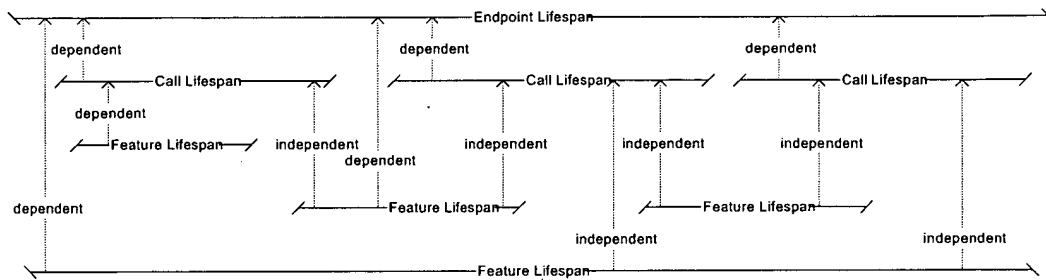


Figure 12

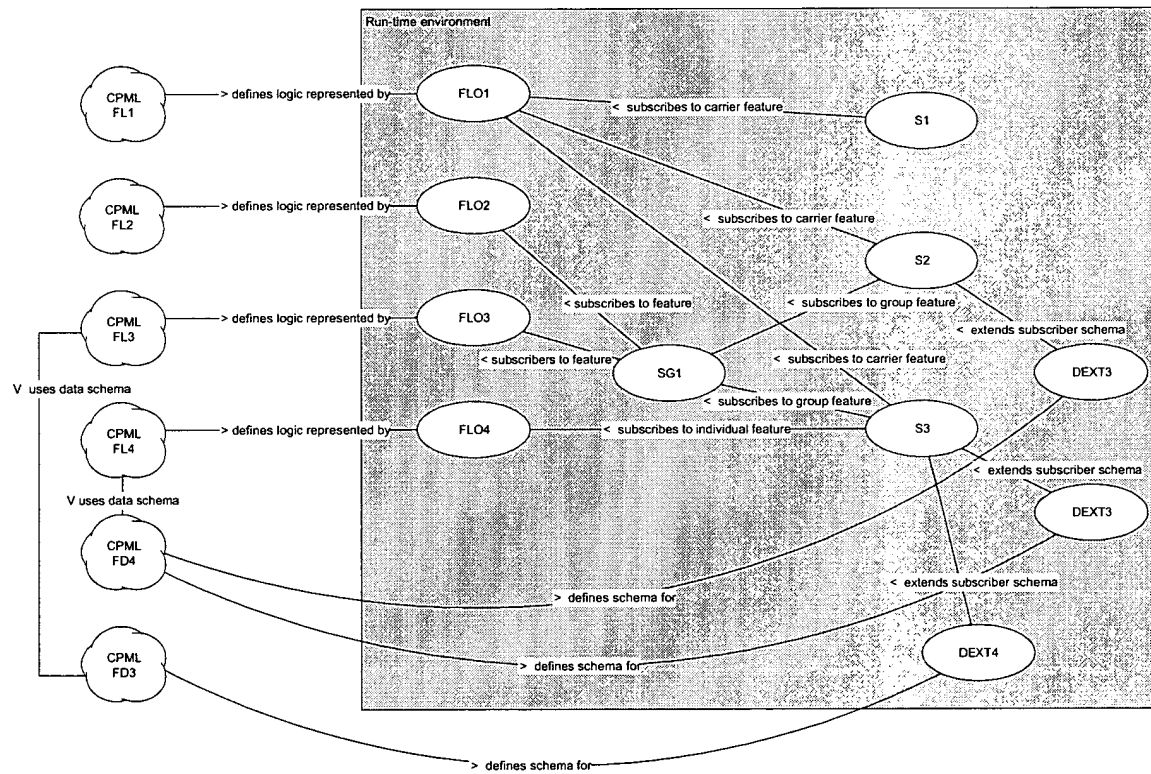


Figure 13

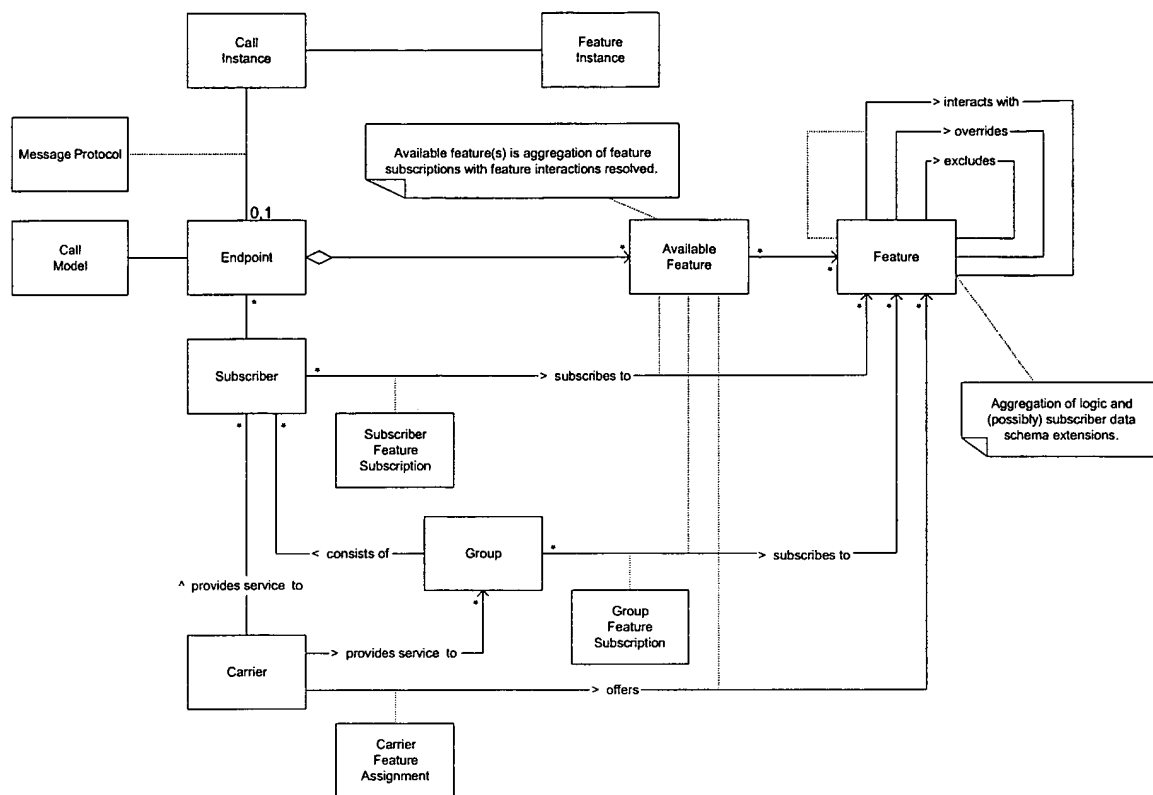


Figure 14

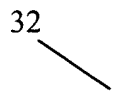


Figure 15

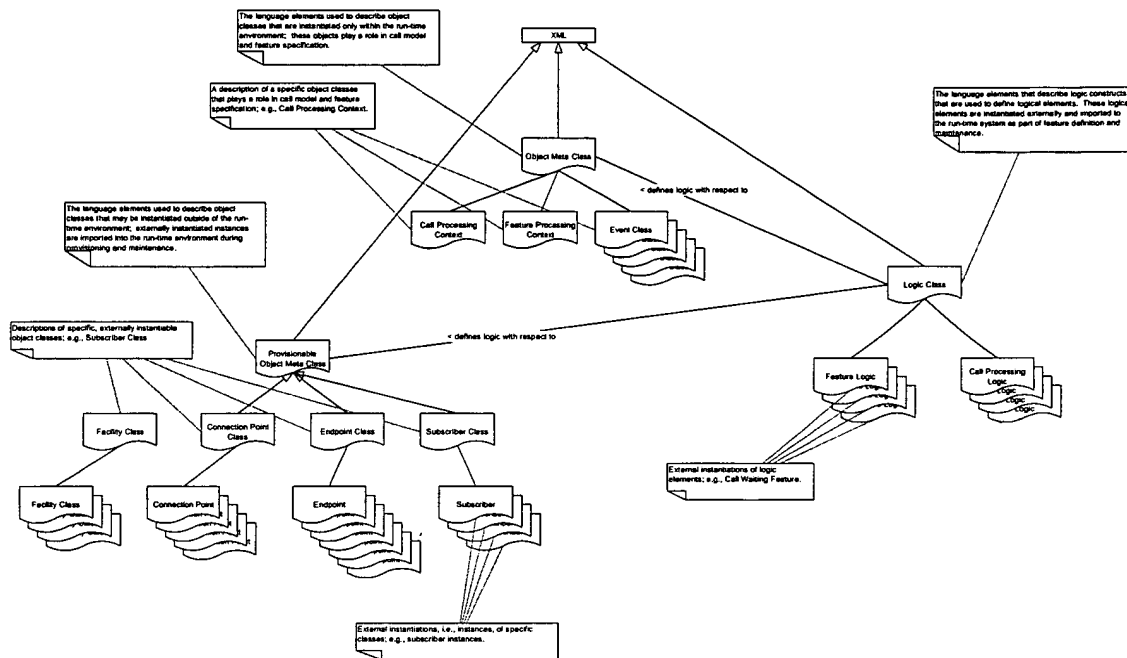


Figure 16

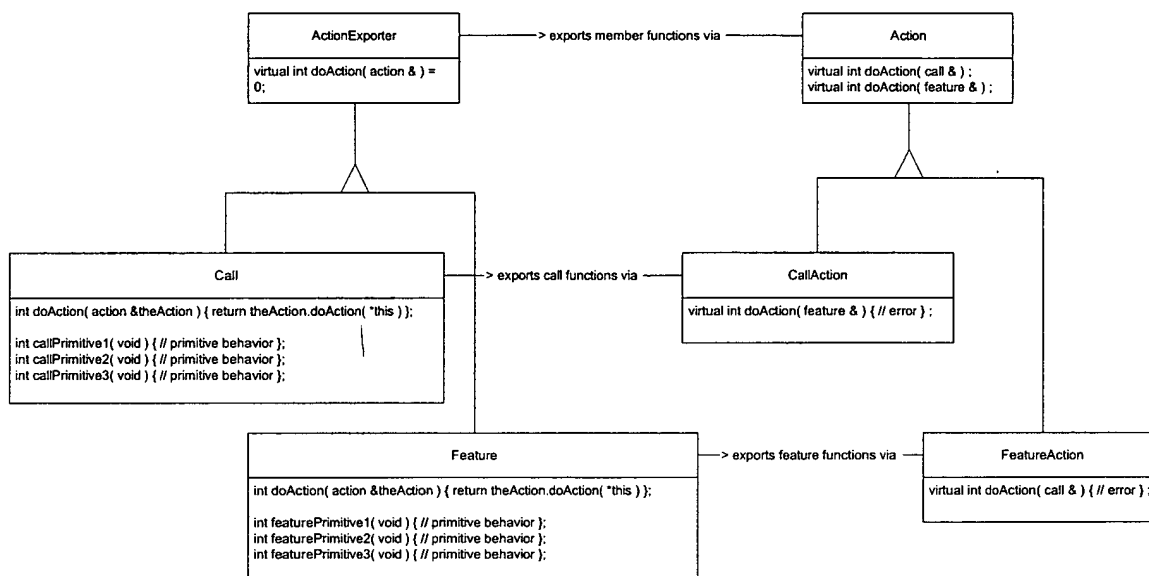


Figure 17

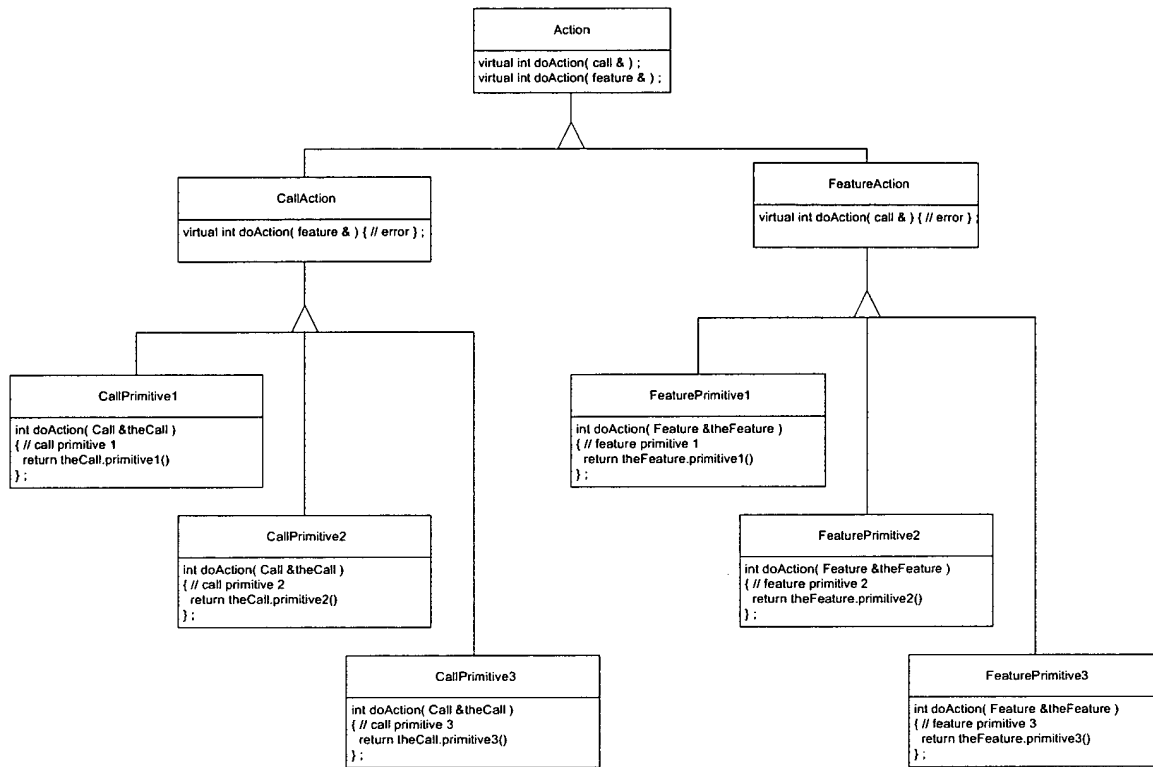
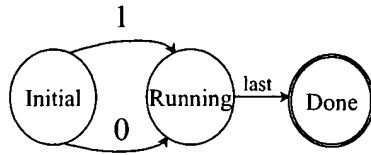


Figure 18



```

(EvenParityLogic
  (Initial (1Bit (()) (Set odd) (Running))
            (0Bit (()) (Set even) (Running))
            (Last (()) (Print "Error!") (Initial))
        )
  (Running (1Bit ((IsOdd?) (Set even) (Running))
                ((IsEven?) (Set odd) (Running))
            )
            (0Bit (()) (Running))
            (Last ((IsOdd?) (Print "Bad!") (Done))
                  ((IsEven?) (Print "Good!") (Done))
            )
        )
  (Done ()))
)
  
```

```

(OddParityLogic
  (Initial (1Bit (()) (Set odd) (Running))
            (0Bit (()) (Set even) (Running))
            (Last (()) (Print "Error!") (Initial))
        )
  (Running (1Bit ((IsOdd?) (Set even) (Running))
                ((IsEven?) (Set odd) (Running))
            )
            (0Bit (()) (Running))
            (Last ((IsOdd?) (Print "Good!") (Done))
                  ((IsEven?) (Print "Bad!") (Done))
            )
        )
  (Done ()))
)
  
```

Figure 19

FIGURE 19

```

(LogicName
(StateName
(EventName
  ((Predicate)
    (ActionName {})
    (ActionName (ParamSpec,...))
    (StateName)
  )
  (()) (ActionName (ParamSpec,...))
    (ActionName (ParamSpec,...))
    (StateName)
  )
)
(EventName
  ((Predicate)
    (ActionName (ParamSpec,...))
    (ActionName (ParamSpec,...))
    (StateName)
  )
  (()) (ActionName (ParamSpec,...))
    (ActionName (ParamSpec,...))
    (StateName)
  )
)
(StateName
(EventName
  ((Predicate)
    (ActionName (ParamSpec,...))
    (ActionName (ParamSpec,...))
    (StateName)
  )
)
)
)

```

Figure 20

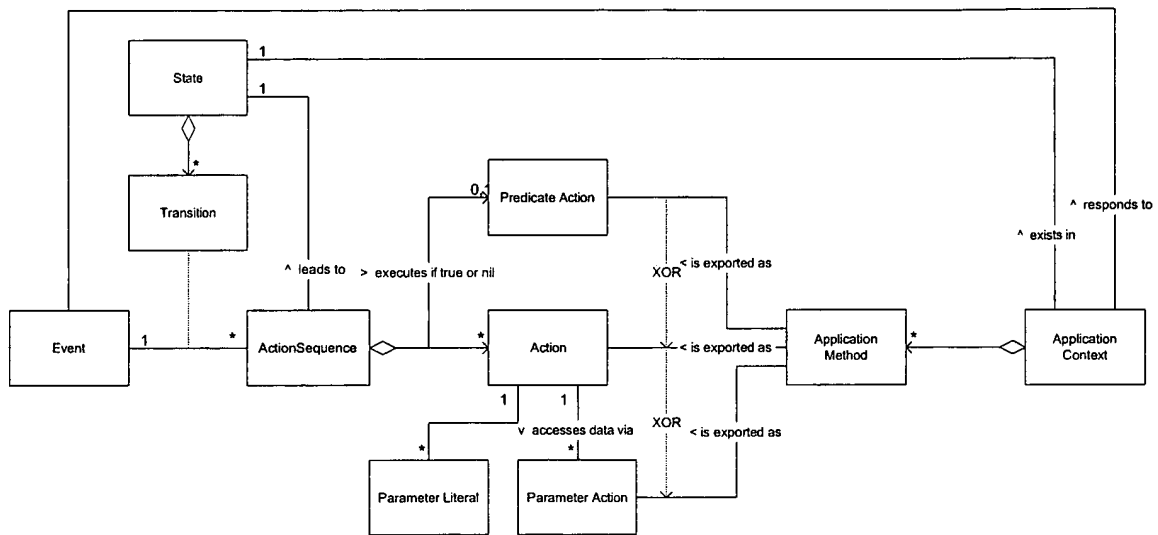


Figure 21

1. *Pharmaceuticals*: The pharmaceutical industry is a major contributor to the U.S. economy, with sales exceeding \$400 billion in 2019. The industry is heavily regulated by the FDA, which oversees the safety, efficacy, and quality of drugs. The industry is also facing increasing pressure to reduce costs and improve access to medicines.

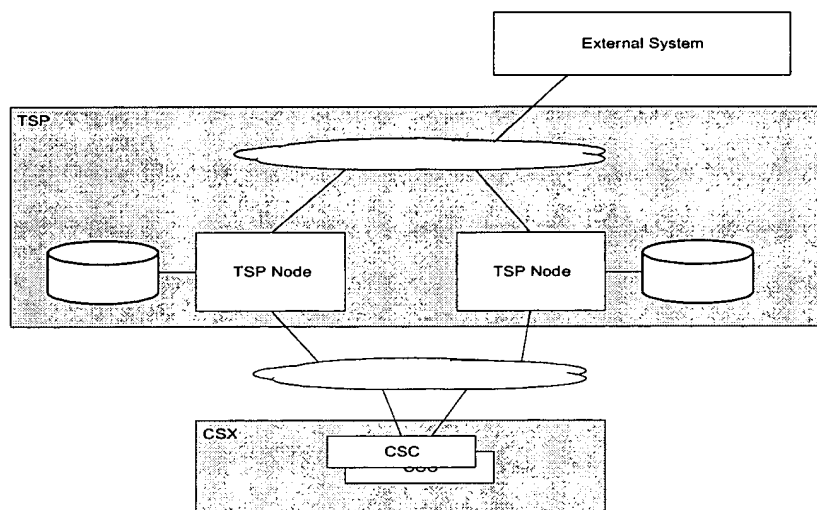


Figure 22

FIG. 22

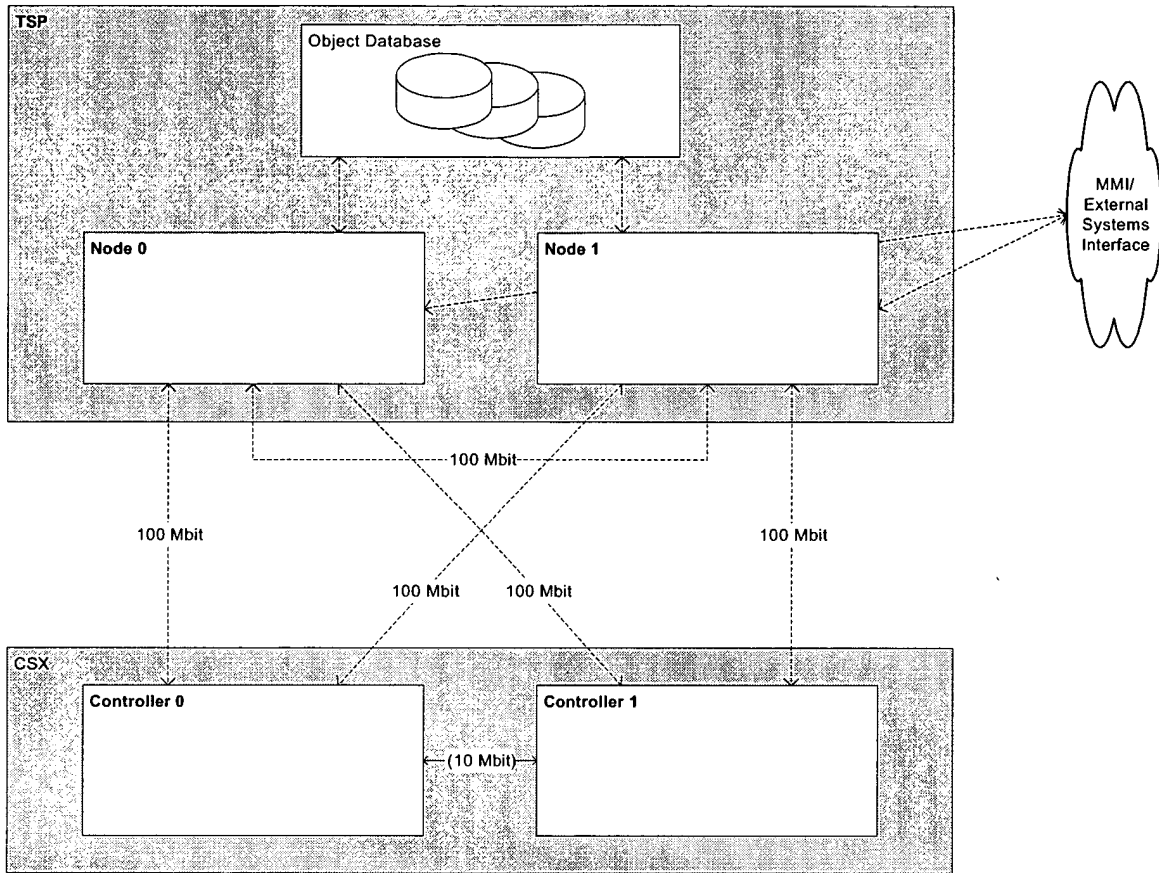


Figure 23

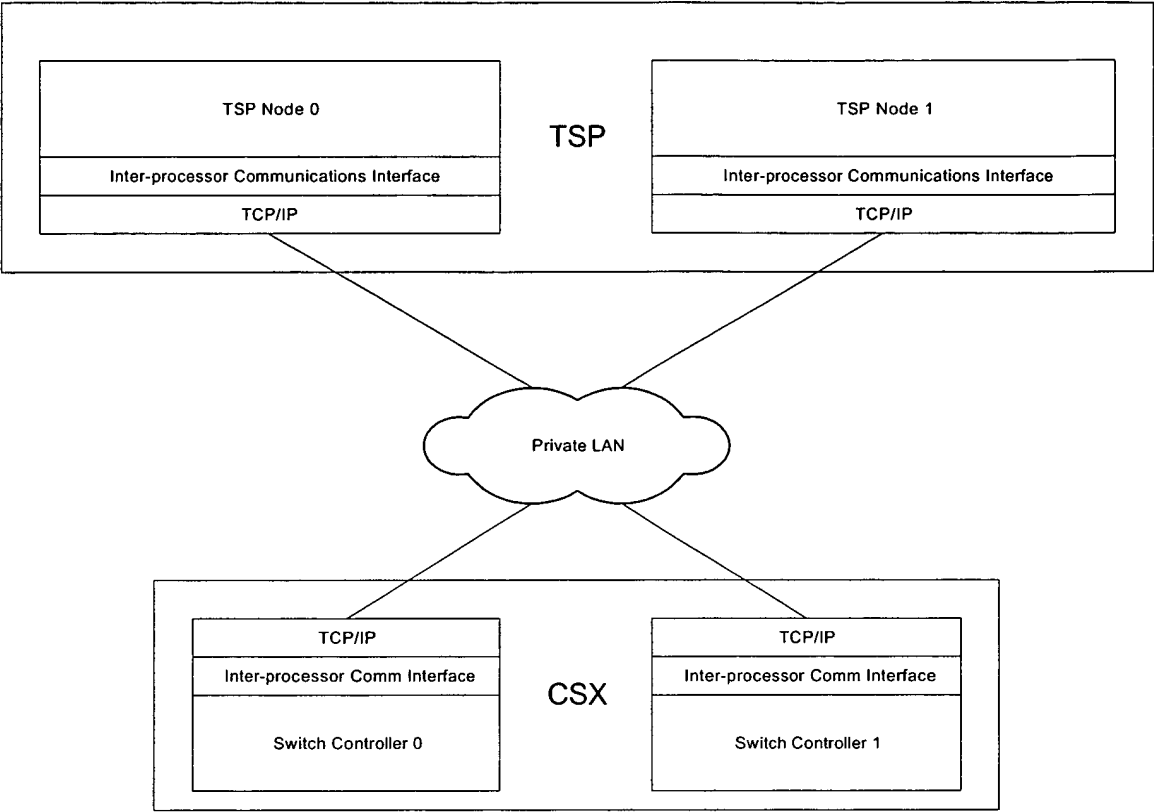


Figure 24

Figure 24

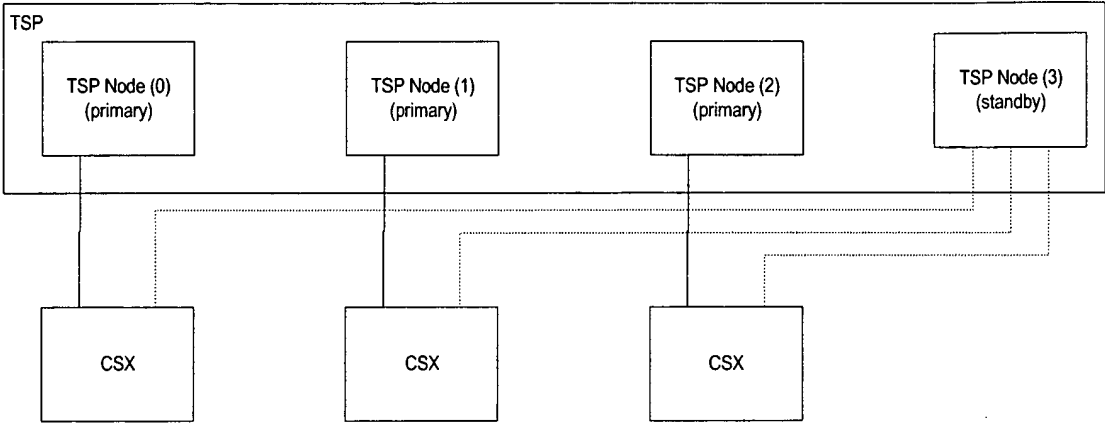


Figure 25

For "3E230" see 3E230

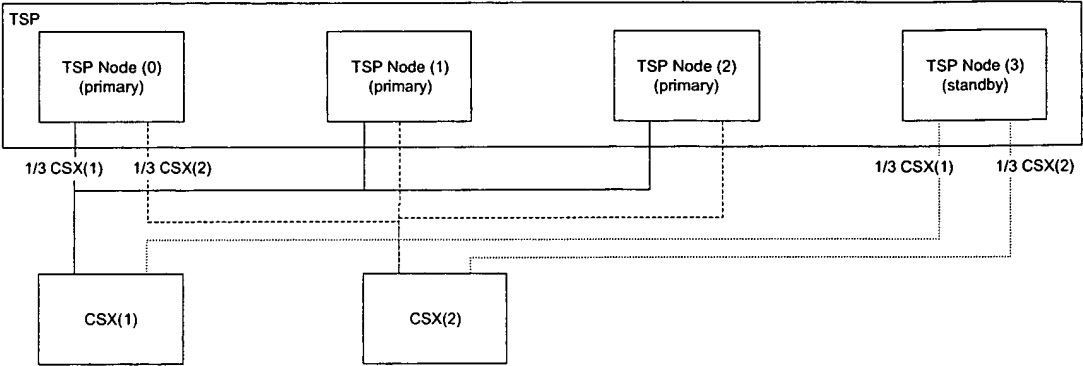


Figure 26

FIG. 26 is a block diagram of a TSP system.

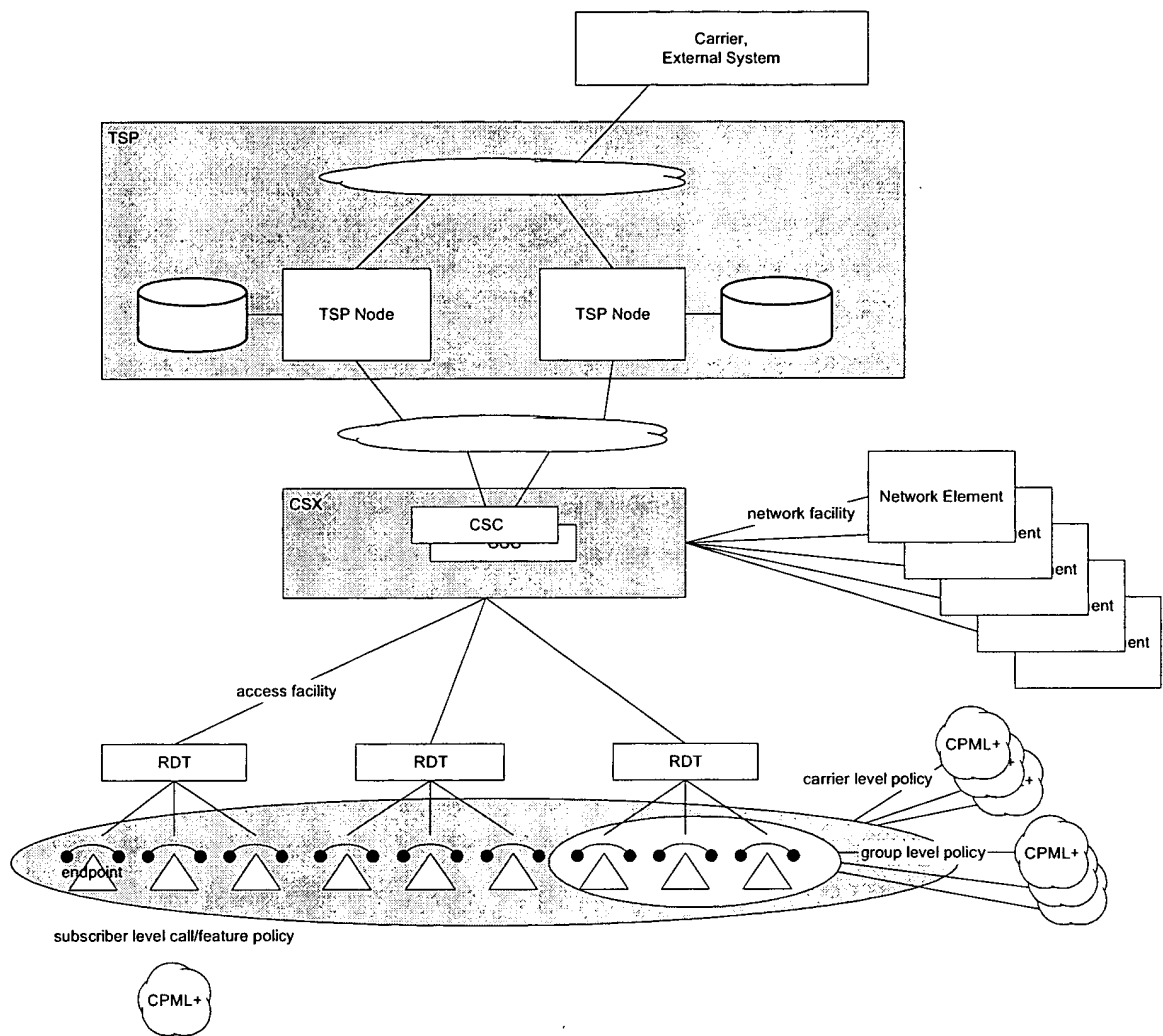


Figure 27

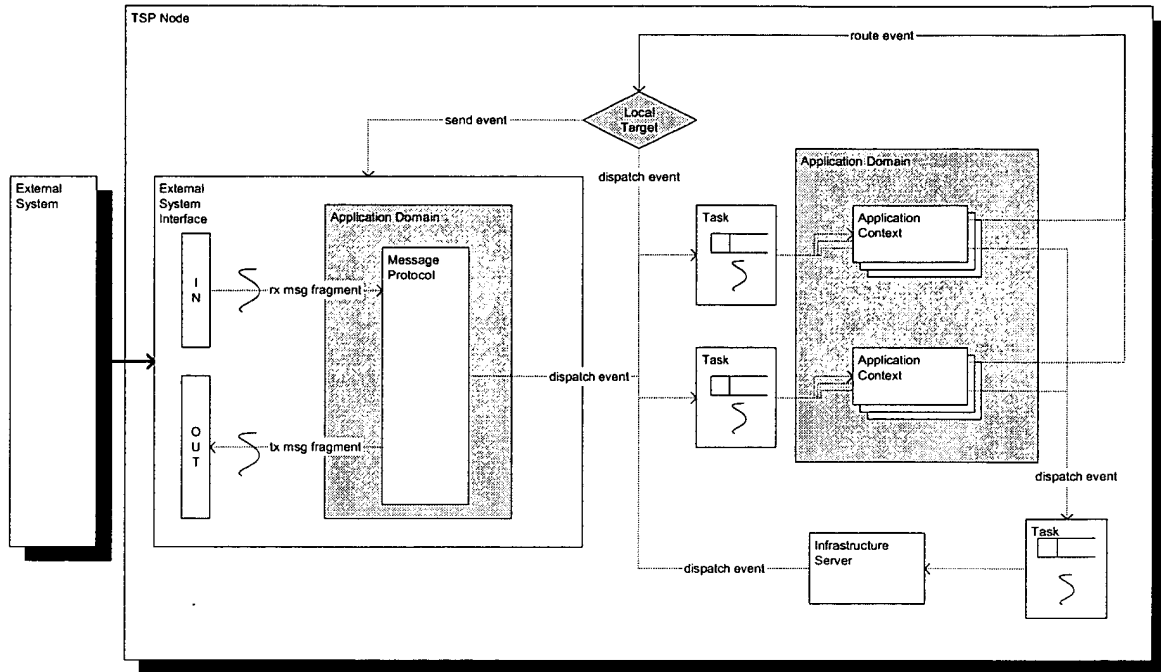


Figure 28A

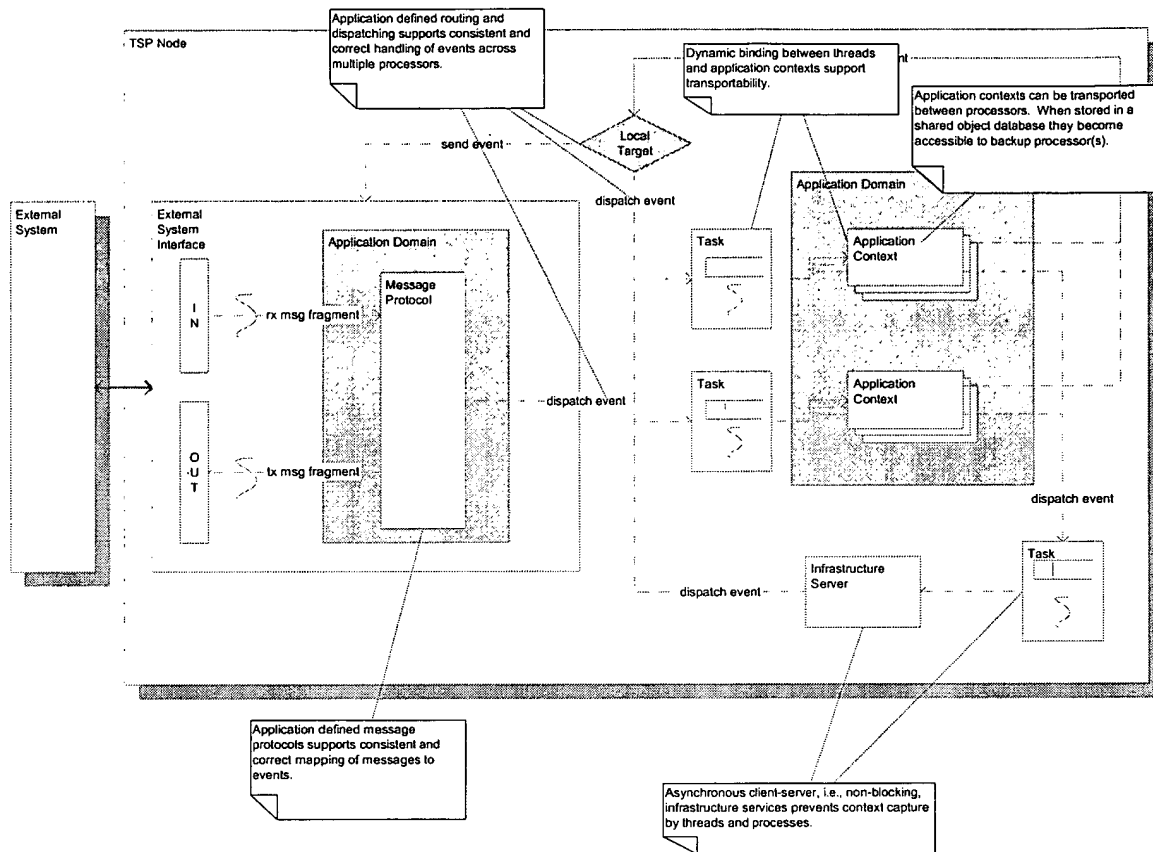


Figure 28B

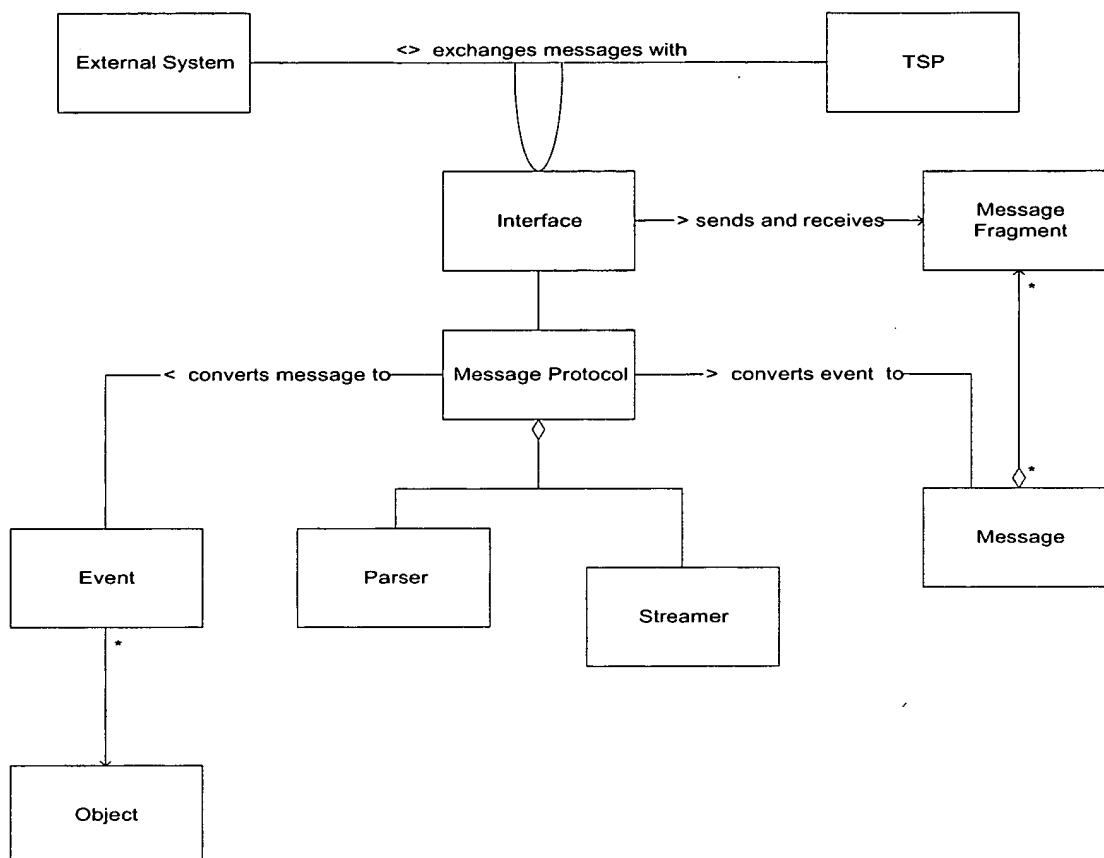


Figure 29

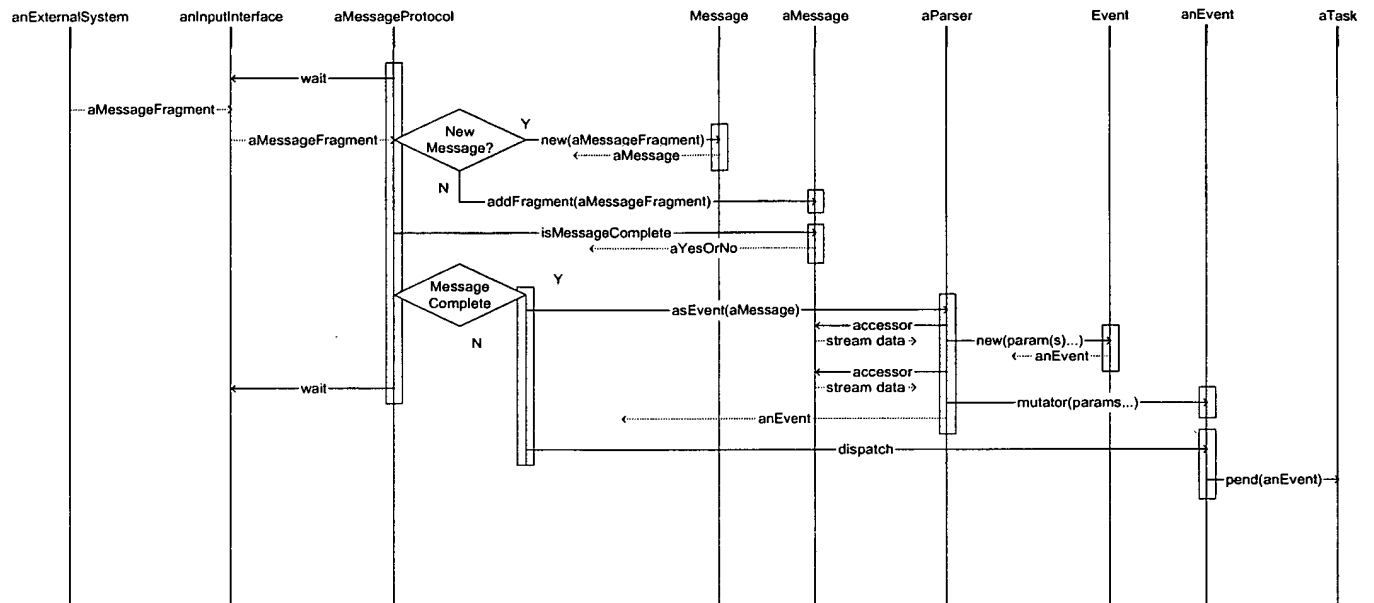


Figure 30A

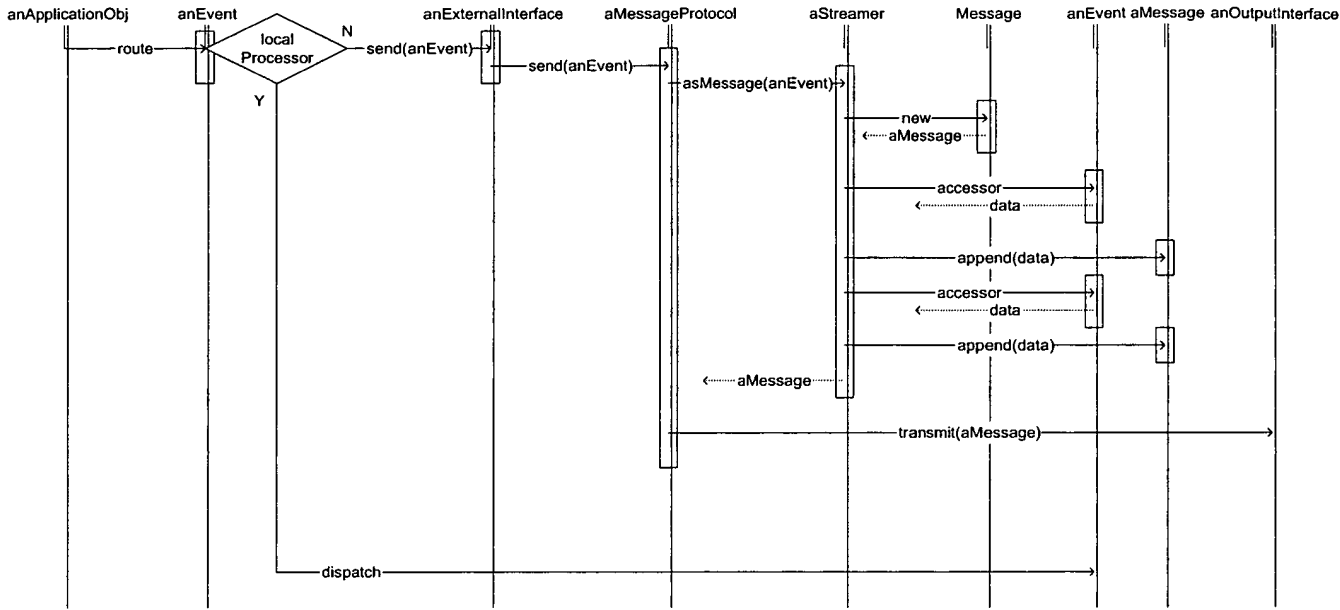
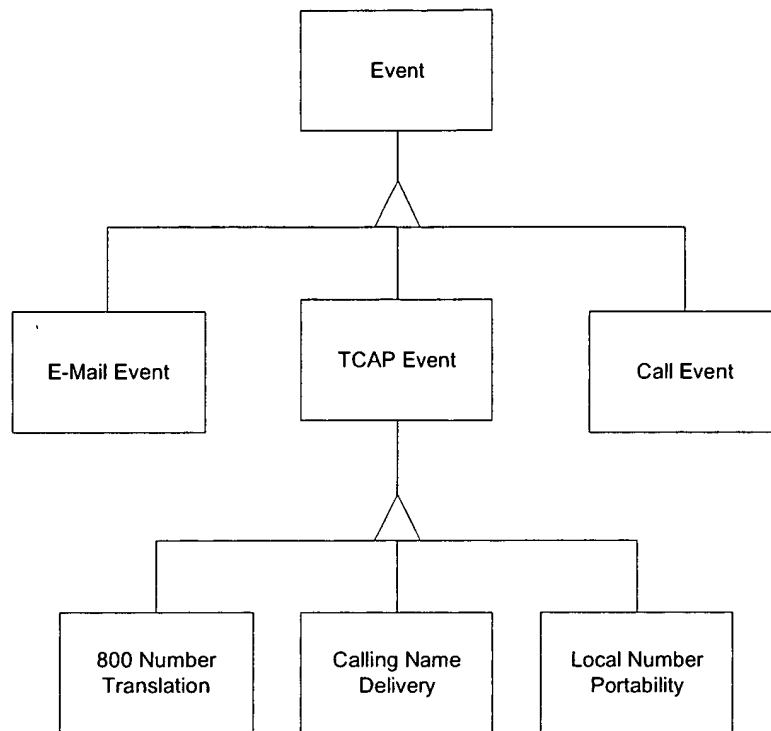


Figure 30B

**Figure 31**

Call/Feature Policy

Definition	Describes call and feature processing behavior.
Native Format	ASCII based markup (CPML, CPML+) for external usage and maintenance. Object(s) for internal processing.
Source/Authority	Service maintenance and provisioning; the TSP/CSX product provides standardized call and class 5 feature definitions. Service Creation Environment (tool?) provides capability to create new or modify existing call and/or feature policies.
Value Initiation Frequency (Low)	Assuming that most policies are defined at carrier or group levels, new call and feature policies with the introduction of new group level call and features types. This frequency is less than the subscriber provisioning frequency. For individual level call and feature types, call and feature policies may be introduced coincident with the provisioning of new subscribers.
Value Change Frequency (Low to Moderate)	In general, call and feature logic elements change infrequently—when call or feature logic is modified or upgraded. This frequency is less than the subscriber provisioning frequency. Call and feature parameter elements, e.g., call forwarding destination number, may change at or above the subscriber provisioning frequency. Some parameter elements may change as much as hourly.
Value Access Frequency (High)	Call and feature policies, including logic and parameter elements, are accessed with each call.
Schema Change Frequency (Low)	Call and feature policy schemas define the structure with which calls and call features are described. Once mature, the schema for defining calls and features should change very infrequently; only as often as needed to upgrade call type and feature specification capabilities.
Consumer(s)	Call and feature processing.
Consumer Format	Object(s)
Replications and Sharing	TSP nodes share call and feature processing specifications.
Scope	System, Group, and Individual Subscriber
Volume	Group and system level logic elements have few instances. Individual level logic elements are coincident with subscriber volumes. Parameter element volumes are a function of the number of parameterized features in combination with the subscriber population size.

Figure 32A

Route

Definition	Describes transmission paths between a network element and its associated endpoints and other network elements and the characteristics of those paths.
Native Format	
Source/Authority	OAM&P
Value Initiation Frequency (Low)	New route entities are introduced when new transmission paths are provisioned and when new transmission path characteristics are provisioned.
Value Change Frequency (Low)	Since routes are related to physical equipment and transmission facilities, routes are relatively static.
Value Access Frequency (High)	Route data is accessed for each call.
Schema Change Frequency (Low)	
Consumer(s)	Call processing.
Consumer Format	
Replications and Sharing	Multiple TSP nodes share route data entities.
Scope	
Volume	Route volumes are a function of the count of endpoints, associated network elements, and transmission path characteristics.

Figure 32B

Endpoint/Subscriber

Definition	Describes endpoint devices (within scope of TSP/CSX), the configuration of those devices, subscribers associated with endpoint devices, and associates endpoint(s)/subscriber(s) with call and feature policies.
Native Format	
Source/Authority	Subscriber care (subscriber provisioning and maintenance).
Value Initiation Frequency (Low)	Endpoint/subscriber instances are initiated as new subscribers are added to the carrier's subscriber base. Call and feature policy associations are initiated as new call types and features are deployed and as subscribers subscriber to different services.
Value Change Frequency (Low)	Value changes occur as subscribers modify their calling and/or feature parameters.
Value Access Frequency (High)	Endpoint/subscriber data is accessed with each call.
Schema Change Frequency (Low to Moderate)	Endpoint schema changes only with software product upgrades. Subscriber schema may be extended through introduction of new features.
Consumer(s)	Call and Feature processing.
Consumer Format	Object
Replications and Sharing	Multiple TSP nodes share Endpoint/subscriber data.
Scope	
Volume	Endpoint/subscriber volumes equal the carrier's subscriber population.

Figure 32C

TSP/CSX "32C" 32C

Call/Feature State

Definition	Describes the current state of calls and/or call features.
Native Format	Object
Source/Authority	Call and Feature Processing; call and feature state data is generated and maintained for each call and/or feature.
Value Initiation Frequency (High)	Call state instances are initiated with each call. Feature state instances are initiated as needed based on call level events.
Value Change Frequency (High)	Call and feature state changes occur in response to events throughout the life of the associated call and/or feature(s).
Value Access Frequency (High)	Call and feature state are accessed in order to service events throughout the life of the associated call and/or feature(s).
Schema Change Frequency (Low)	Call and feature state objects a combination of native application objects and instantiations of call and feature policy schemas. Native object schemas change only with product software upgrades. Call and feature policy schema changes are addressed elsewhere.
Consumer(s)	Call and feature processing.
Consumer Format	Object
Replications and Sharing	Call and feature states are replicated in support of fault tolerance capabilities.
Scope	
Volume	Call and feature volumes are a function of the subscriber population combined with the subscriber's calling frequency constrained by transmission capabilities.

Figure 32D

Equipment/Facility

Definition	Describes an equipment item or a transmission facility, and the configuration of that equipment item or transmission facility. Equipment items include processor devices, remote data terminals, intelligent peripherals, etc. Transmission facilities include network facilities, which connect a CSX to an external network element, and access facilities, which provide endpoints with access to the carrier's network.
Native Format	MIB?
Source/Authority	OAM&P
Value Initiation Frequency (Low)	New equipment descriptions are introduced when the carrier adds new equipment components. New network facilities are introduced when the carrier adds new transmission facilities.
Value Change Frequency (Low)	Changes in equipment and transmission facility descriptions and configurations are rare once provisioned and stable.
Value Access Frequency (Low)	Equipment and transmission facility descriptions and configurations are accessed only during system initialization and re-boots.
Schema Change Frequency (Low)	Equipment and transmission facility schemas change only support for new equipment and/or transmission types is added to the product.
Consumer(s)	System initialization and OA&P processes.
Consumer Format	
Replications and Sharing	TSP nodes share some of the equipment and transmission facility description and configuration data. TSP and CSX elements share certain categories of equipment and transmission facility descriptions and configurations.
Scope	
Volume	This is a function of the count of equipment items and transmission facilities.

Figure 32E

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

Definition	Describes the present state of an equipment item or a transmission facility.
Native Format	MIB?
Source/Authority	OA&M processes, certain aspects of call processing. NMS may command state changes.
Value Initiation Frequency (Low)	Equipment and facility states are initiated during system initialization and re-boots.
Value Change Frequency (Moderate to High)	Certain types of equipment and transmission facilities change state frequently. Other types change state with only moderate frequency. Aggregate equipment and facility states change with less frequency than individual components.
Value Access Frequency (Varies from Low to High)	In general, this data is accessed at NMS polling intervals. State data that contributes to statistics may be sampled at frequent intervals.
Schema Change Frequency (Low)	Equipment and facility state schemas change only with product upgrades.
Consumer(s)	NMS
Consumer Format	MIB?
Replications and Sharing	Multiple TSP nodes may share certain state elements. Certain equipment and facility state elements may be replicated for redundancy support.
Scope	
Volume	This is a function of the count of equipment items and transmission facilities.

Figure 32F

Equipment/Facility Statistics

Definition	Describes a usage or event occurrence history with respect to a particular equipment item or facility.
Native Format	MIB?
Source/Authority	OA&M processes, certain aspects of call processing.
Value Initiation Frequency (Low)	Values are initiated during system initialization and re-boots.
Value Change Frequency (Moderate to High)	Statistics on directly measured attributes change with the frequency of related events. Statistics on sampled attributes change with the sampling frequency.
Value Access Frequency (Low to Moderate)	These values are accessed at collection and polling intervals.
Schema Change Frequency (Low)	Statistic schema changes occur only with product upgrades.
Consumer(s)	NMS, OAM&P
Consumer Format	SNMP Messages, ASCII based markup logs
Replications and Sharing	
Scope	
Volume	Statistics volume is a function of measurement method, measurement intervals, and count of sampled entities.

Figure 32G

Automated Message Accounting (AMA)

Definition	Describes call and feature usage characteristics relevant to call and feature billing.
Native Format	AMA data is packed binary coded decimal. Historically, AMA data is stored and/or transmitted in blocks according to a standard tape record format.
Source/Authority	Billing related processing; AMA records are generated from CDRs.
Value Initiation Frequency (Low)	AMA records are most likely generated according to an internal schedule, perhaps once or twice daily. AMA generation may occur on demand when polled by an external system. AMA or as specified by call and/or feature definitions to support real-time bill calculation/accounting.
Value Change Frequency (Static)	AMA records are static once generated.
Value Access Frequency (Low)	In general, AMA records are accessed only when passed to an external system for processing—under nominal circumstances this occurs once for each record. Additional accesses may occur to support recovery of an external processing exception.
Schema Change Frequency (Low)	New AMA schemas may be introduced with new service introductions. Existing AMA record schemas are defined by Telcordia standards and therefore change infrequently.
Consumer(s)	External bill processing system.
Consumer Format	AMA
Replications and Sharing	AMA data need not be replicated or shared among TSP processing nodes.
Scope	System
Volume	AMA volumes are a function of call/ feature volume.

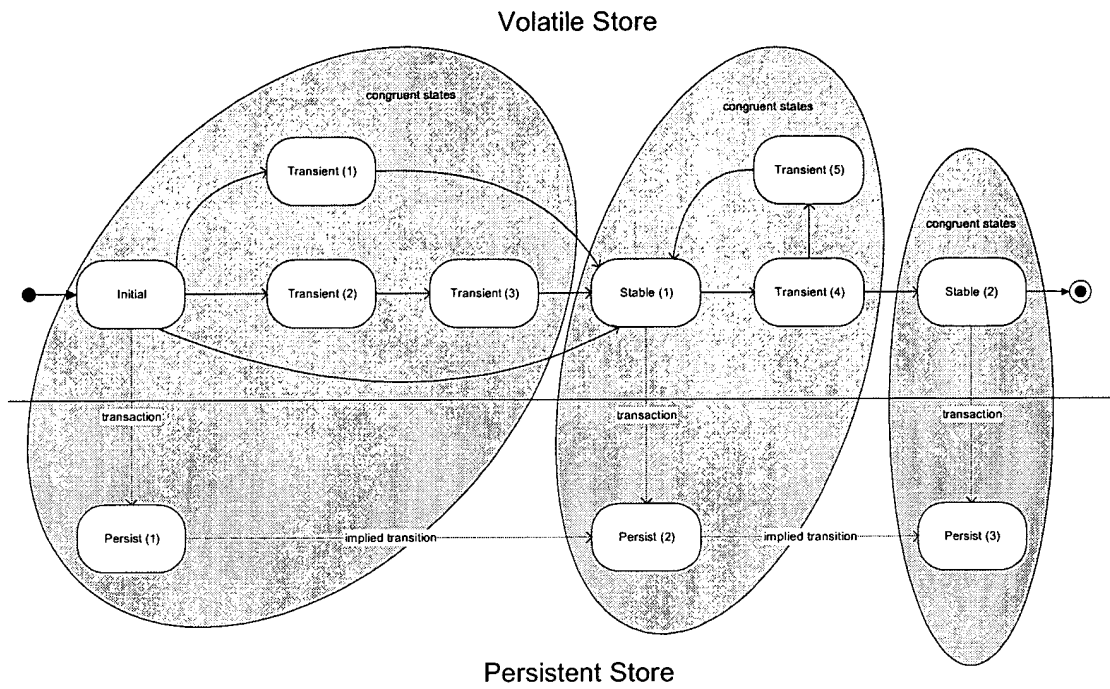
Figure 32H

Call Detail Record (CDR)

Definition	Describes call and feature usage characteristics relevant to call and/or feature billing, and facility usage accounting.
Native Format	Log of ASCII based markup.
Source/Authority	Call and Feature Processing; call and feature processing generates CDRs according to call and/or feature policy.
Value Initiation Frequency (High)	CDRs are generated per call and per feature. There may be multiple CDRs associated with a single call or feature.
Value Change Frequency (Static)	CDRs are static once generated.
Value Access Frequency (Low)	In general, CDRs are accessed as needed to support AMA or other billing interface data generation, and as needed to support facility usage accounting. AMA generation frequency is described elsewhere. It is anticipated that other billing formats and facility usage accounting data are generated no more often than daily.
Schema Change Frequency (Moderate)	New CDR schemas may be introduced with the introduction of new call types and call features. Existing CDR schemas may be modified to support billing or facility usage accounting changes.
Consumer(s)	Billing and Usage Accounting processes.
Consumer Format	ASCII based markup.
Replications and Sharing	CDR data need not be replicated or shared among TSPs.
Scope	System
Volume	Generally coincident with call and feature volumes.

Figure 32I

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000



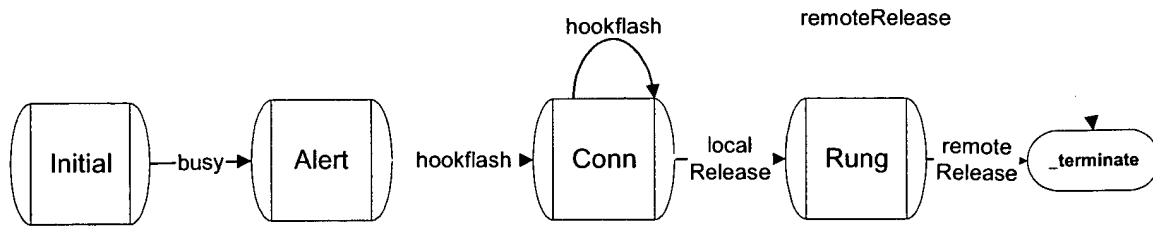
Persistent Store

Figure 33

FIG. 33 is a diagram of a state transition system.



Figure 34



Call Waiting State Machine

Figure 35

100

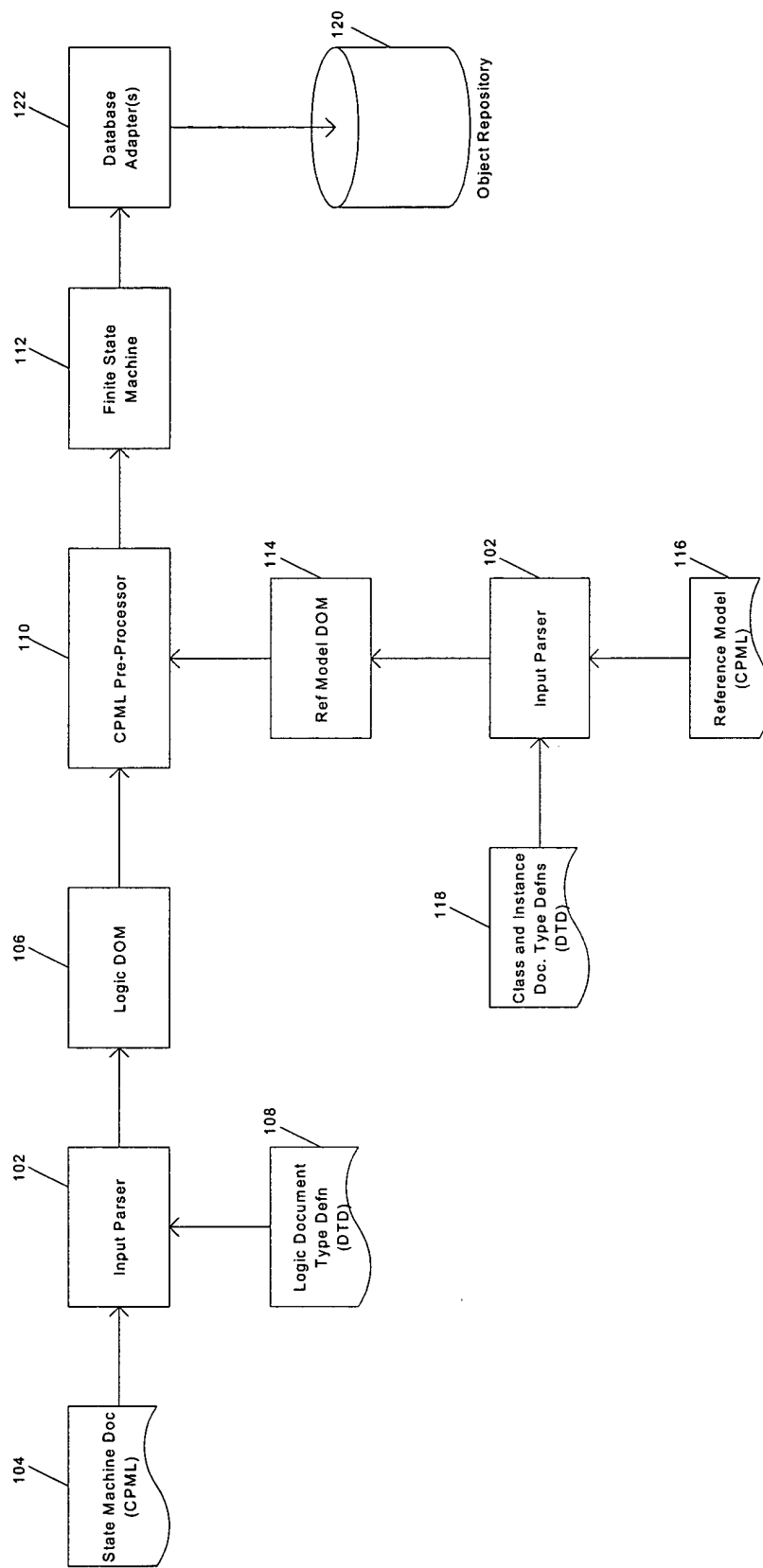


FIGURE 36

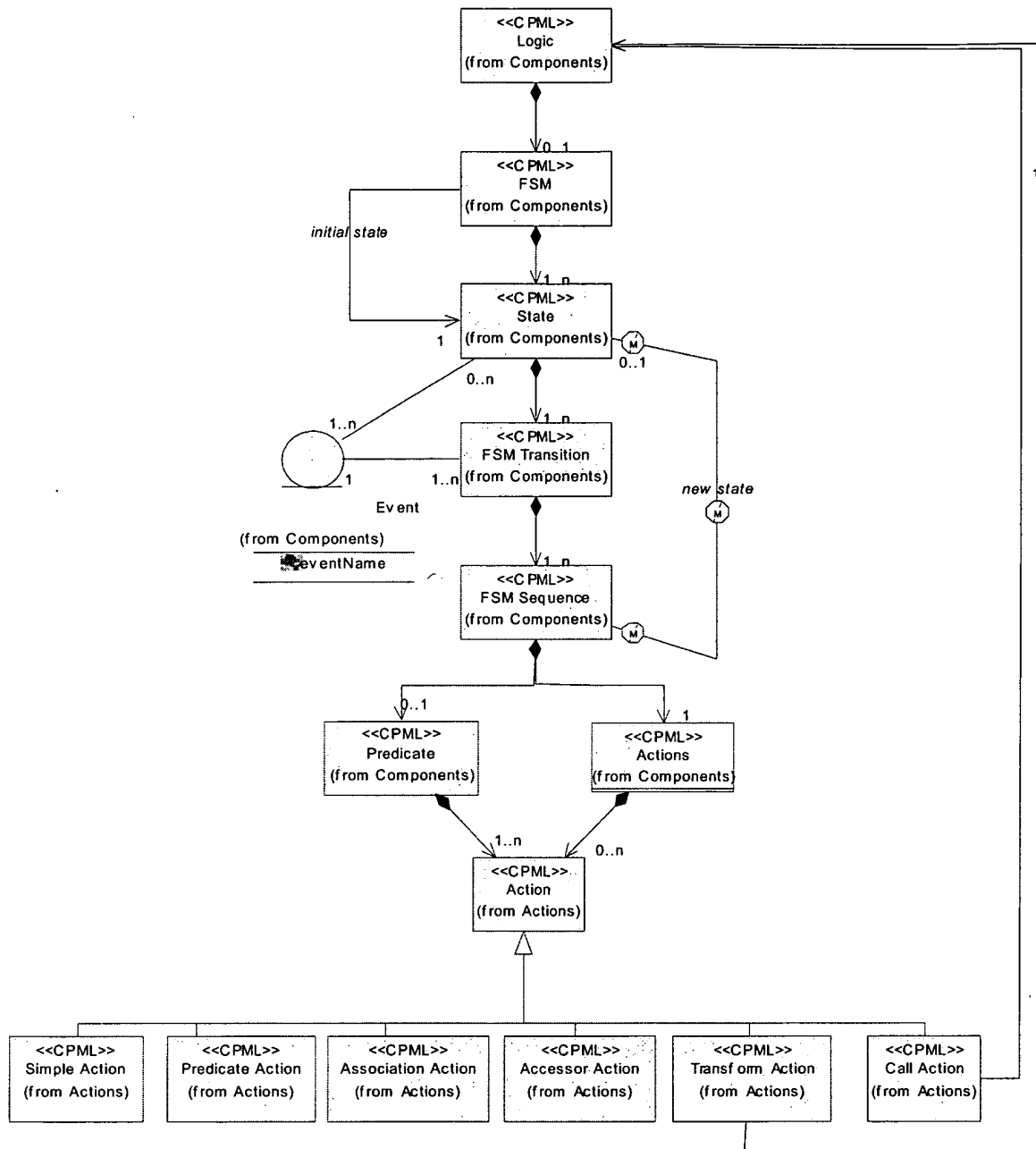


Figure 36A

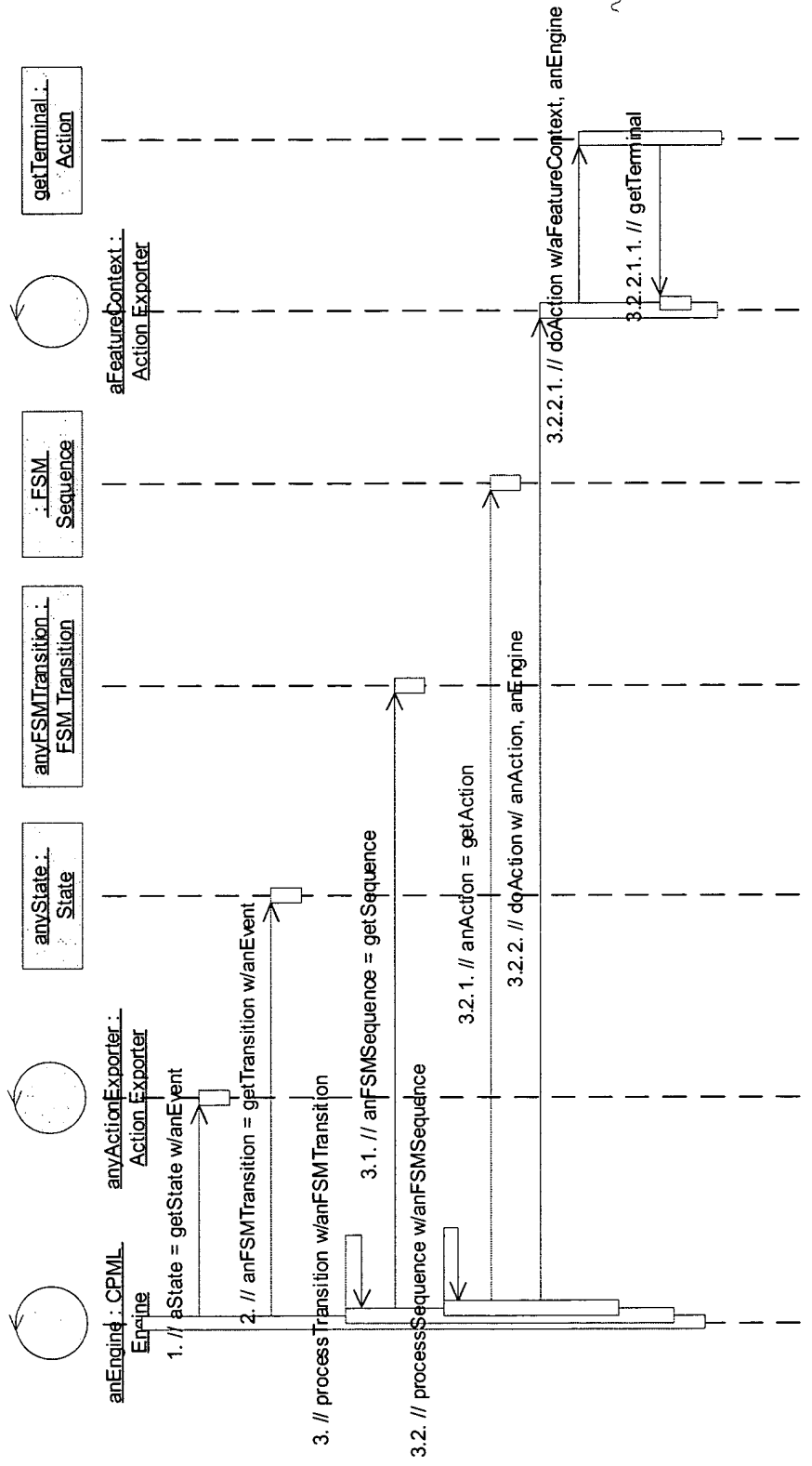


Figure 36B

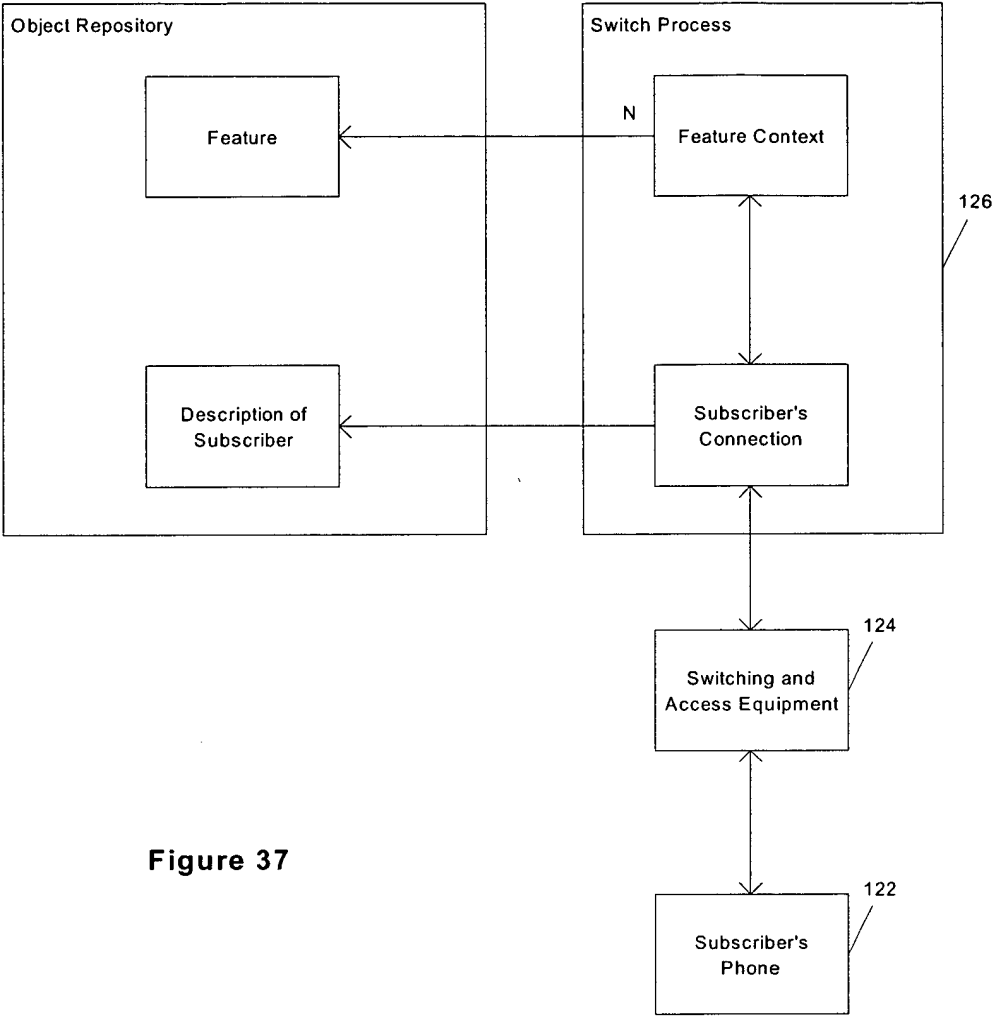


Figure 37

Downloaded from www.scribd.com

Example State Machine

```

<?xml version="1.0"?>
<!DOCTYPE LOGIC SYSTEM "fsm.dtd">
<LOGIC Name="CallAuthorizationSvc">
  <FSM InitState="START">
    <STATE Name="START">
      <TRANSITION Name="T1_1" Event="START">
        <FSMSEQUENCE NextState="CALL_AUTHORIZATION_SVC_END">
          <ACTIONS>
            <ACTION Name="postInternalEvent">
              <LITERAL Name="EventLiteral" Value="Authorized"/>
            </ACTION>
          </ACTIONS>
        </FSMSEQUENCE>
      </TRANSITION>
    </STATE>
    <END_STATE Name="CALL_AUTHORIZATION_SVC_END"/>
  </FSM>
</LOGIC>

```

Figure 38

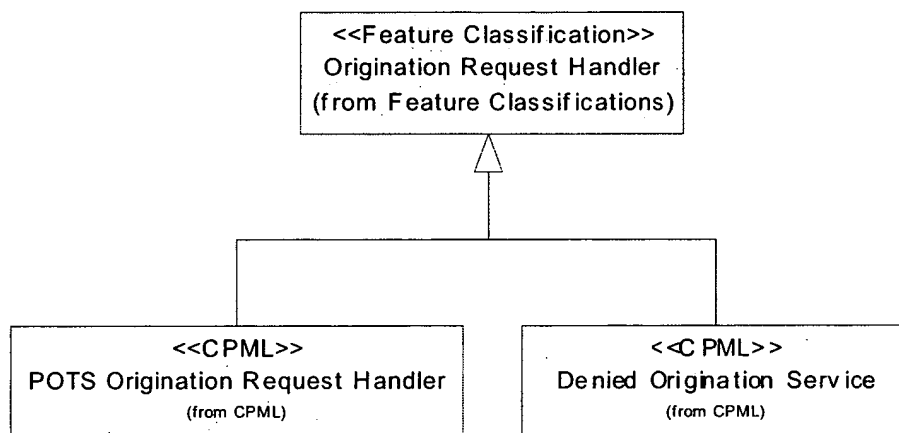


Figure 39

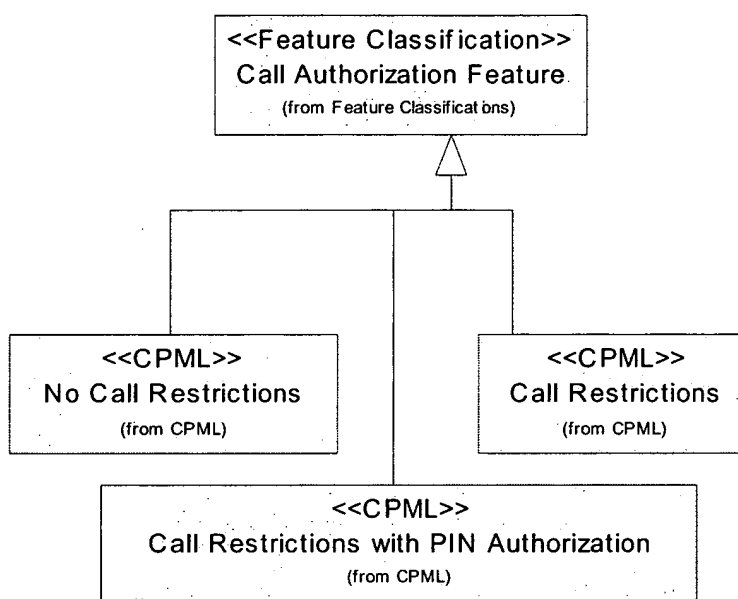
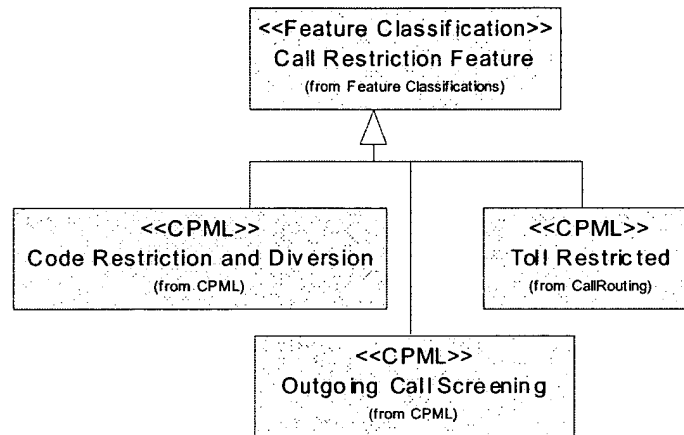
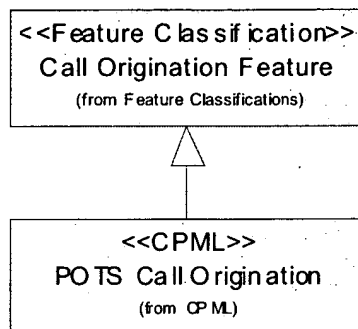


Figure 40

**Figure 41**

**Figure 42**

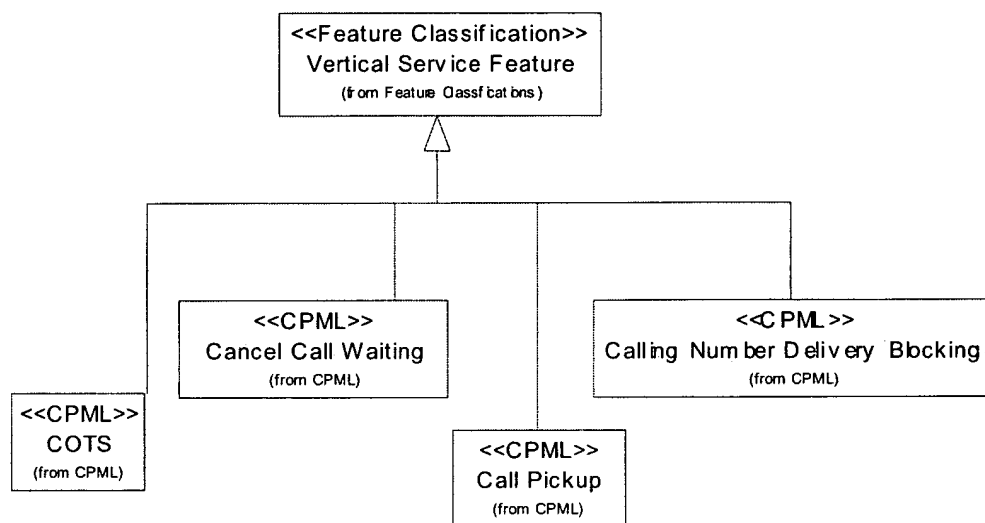


Figure 43

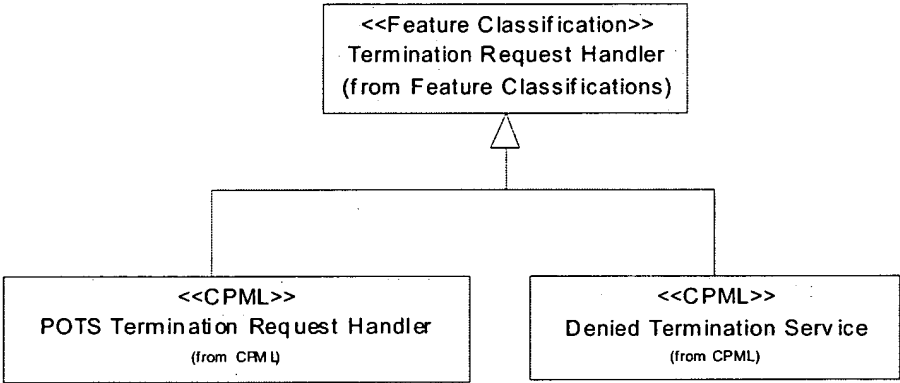


Figure 44

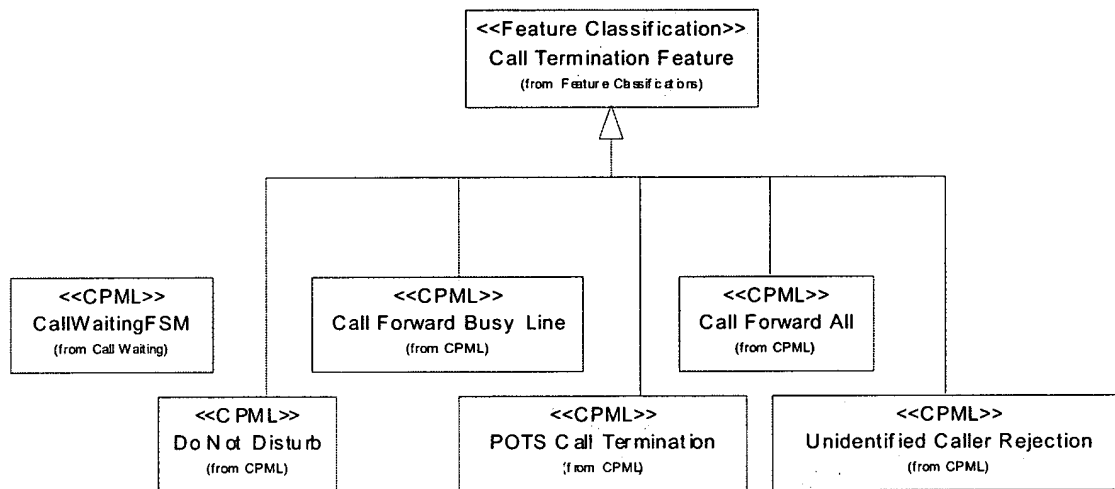


Figure 45

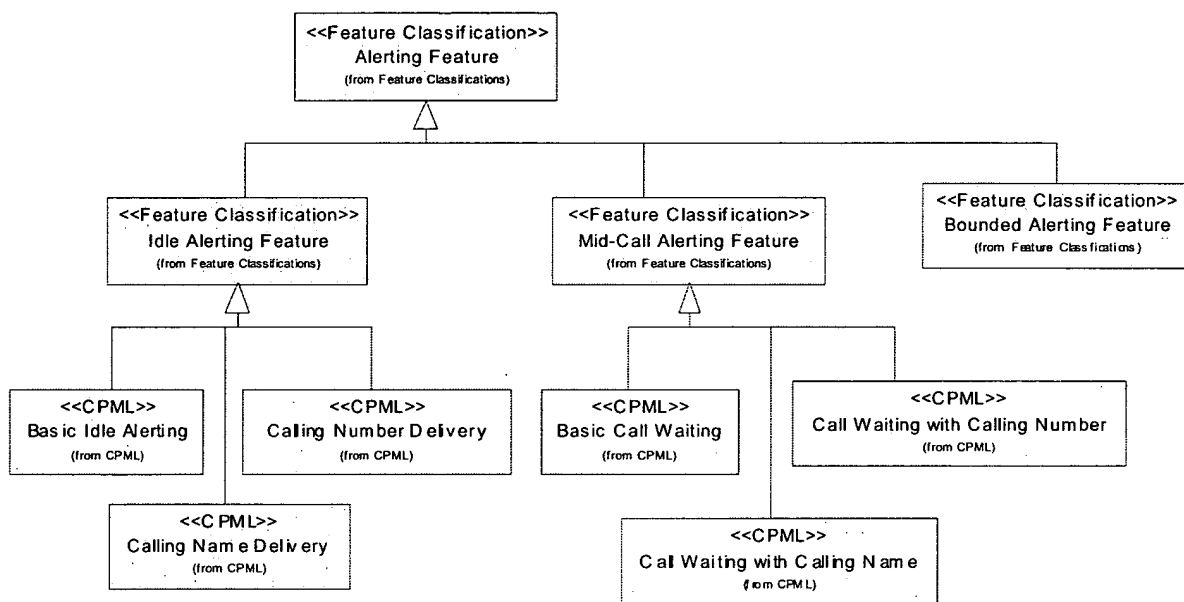


Figure 46

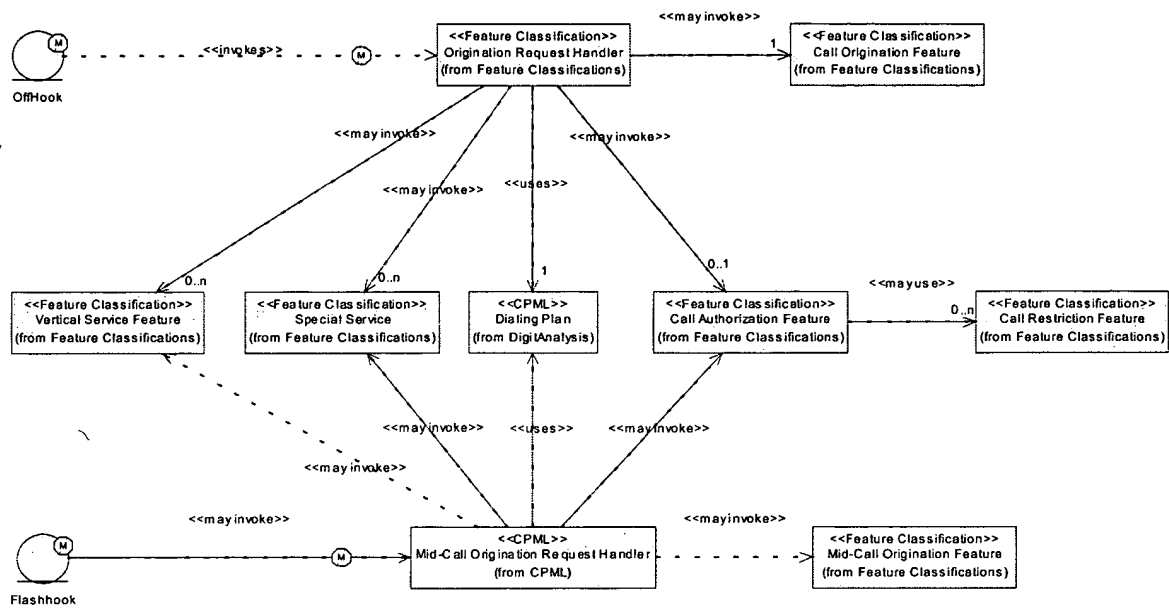


Figure 47

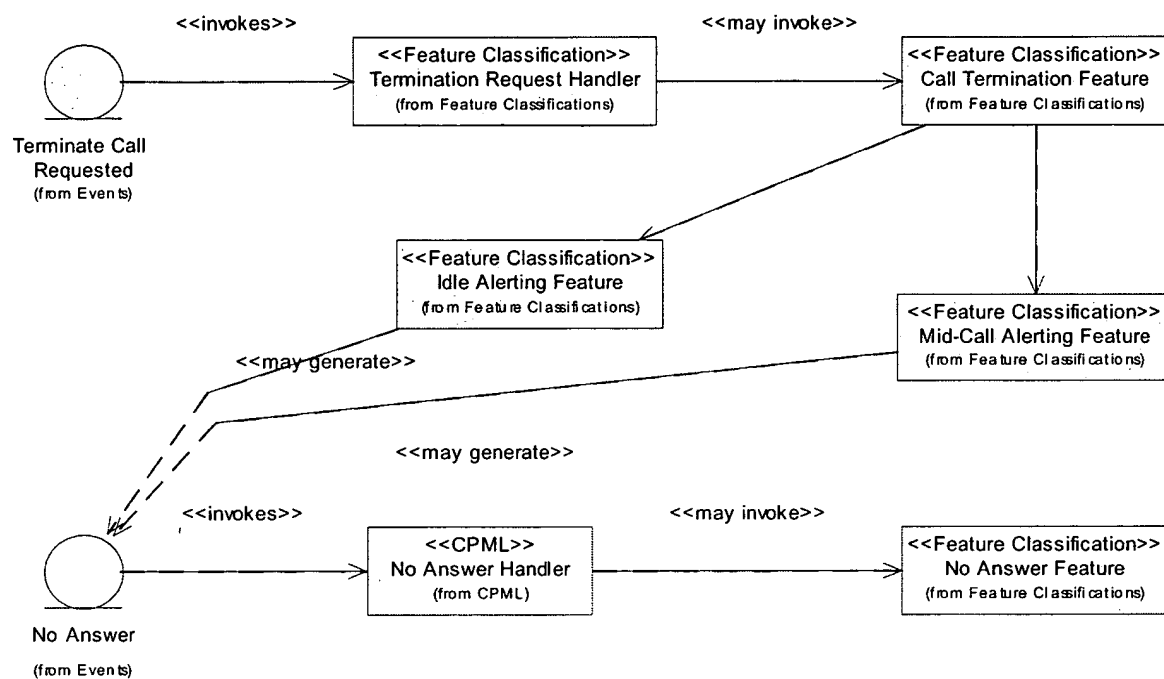


Figure 48

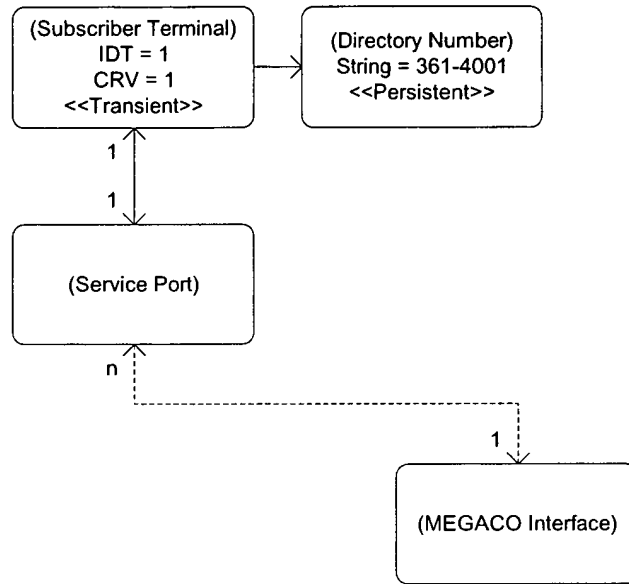


Figure 49A

Copyright © 2000 Lucent Technologies

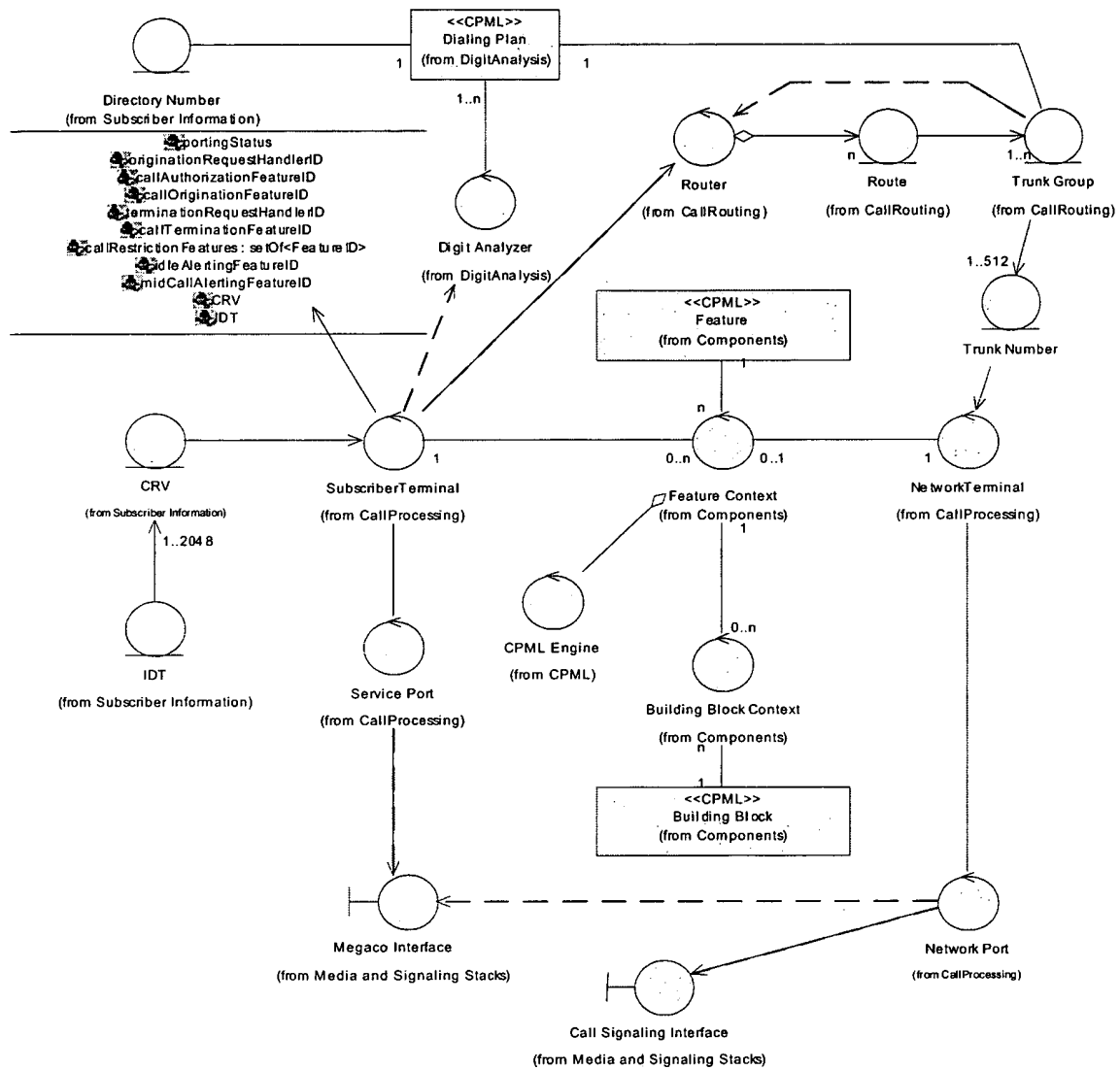


Figure 49B

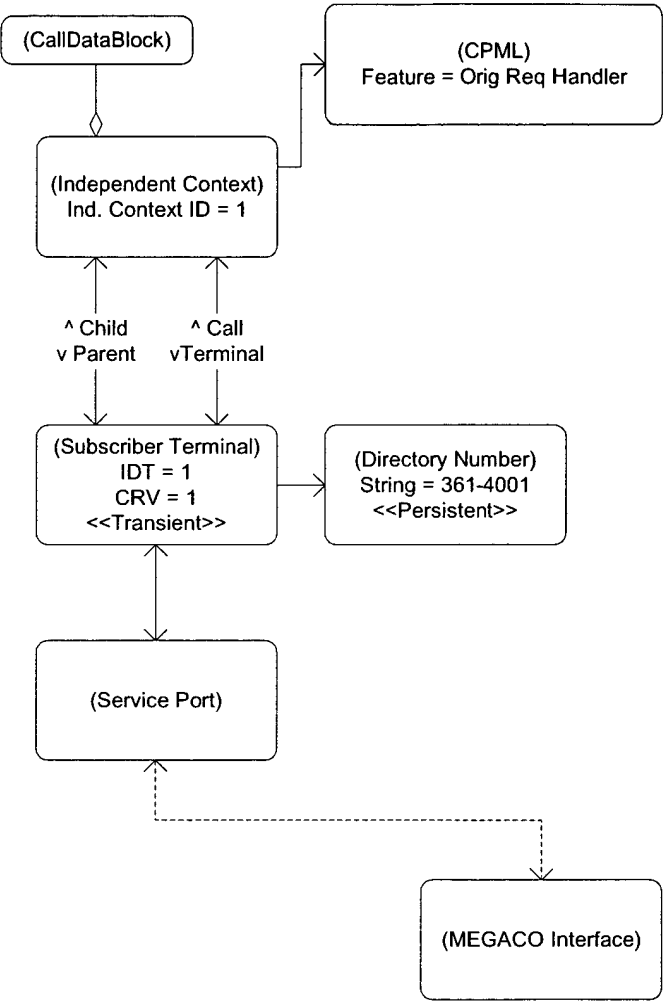


Figure 50

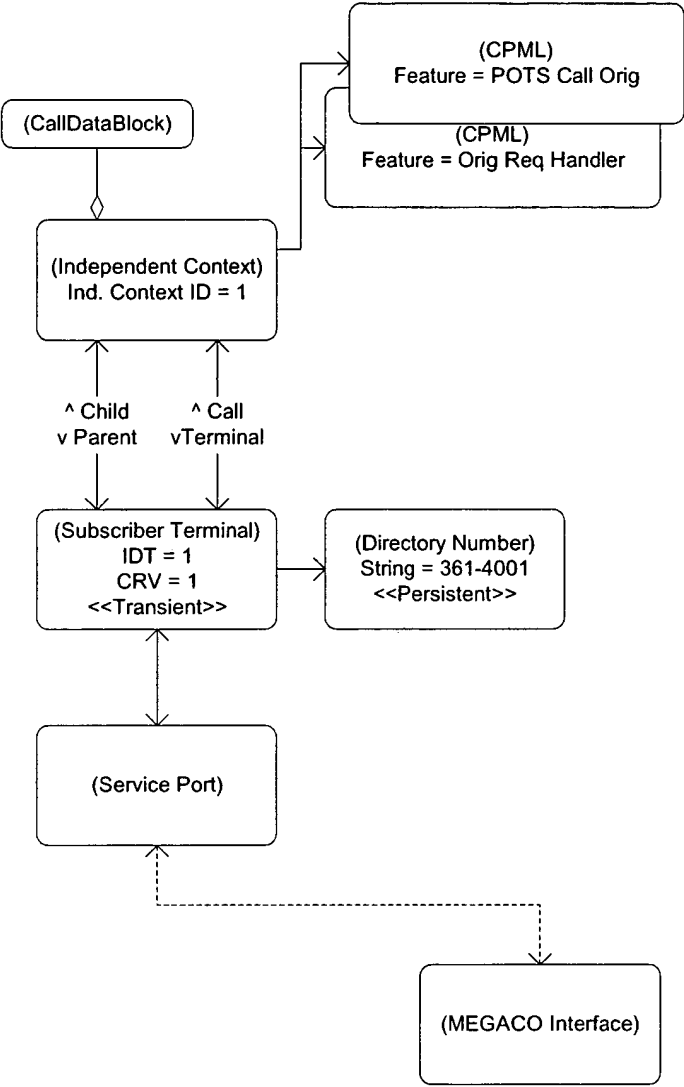


Figure 51

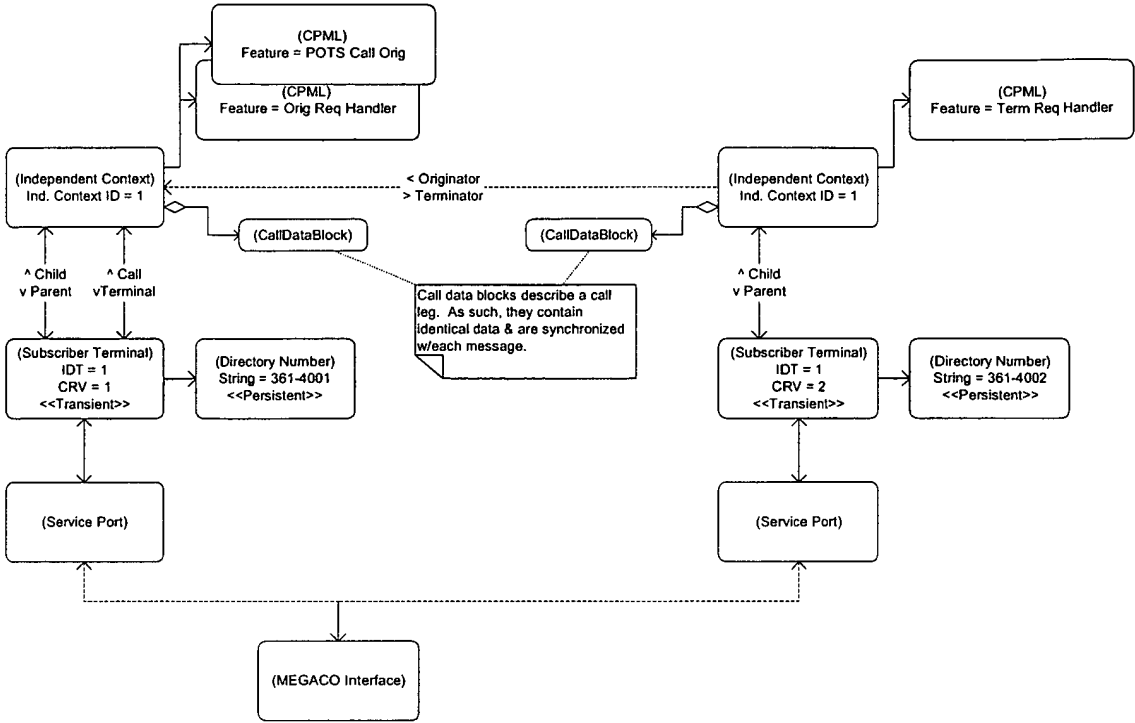


Figure 52

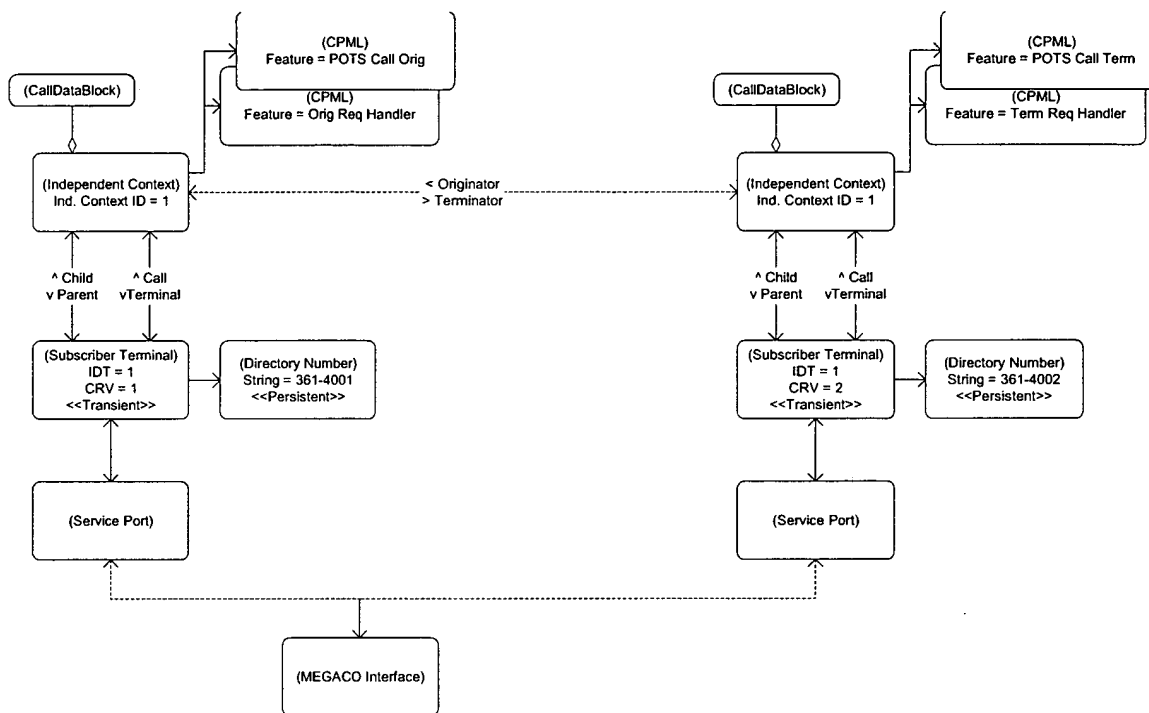


Figure 53

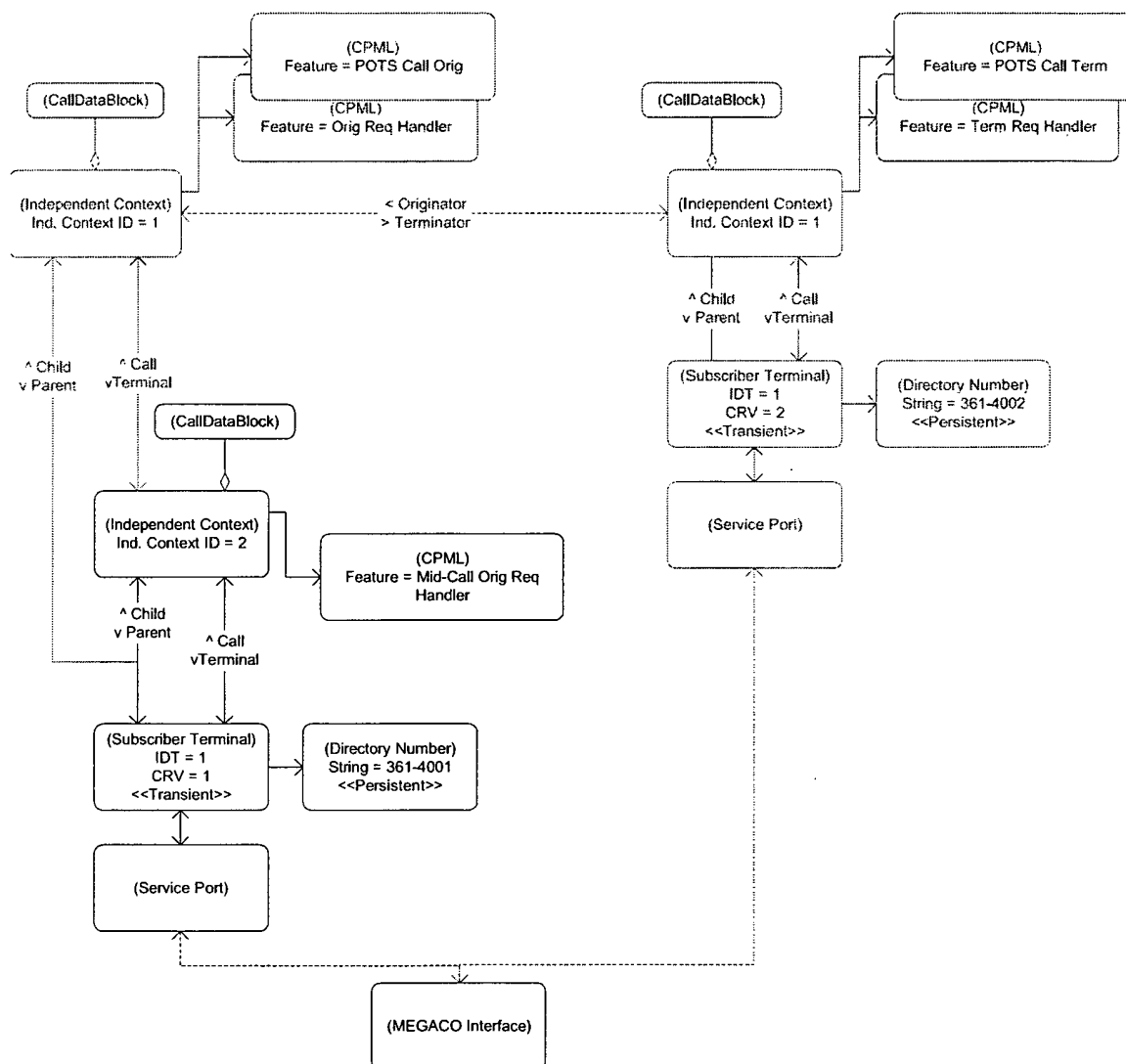


Figure 54

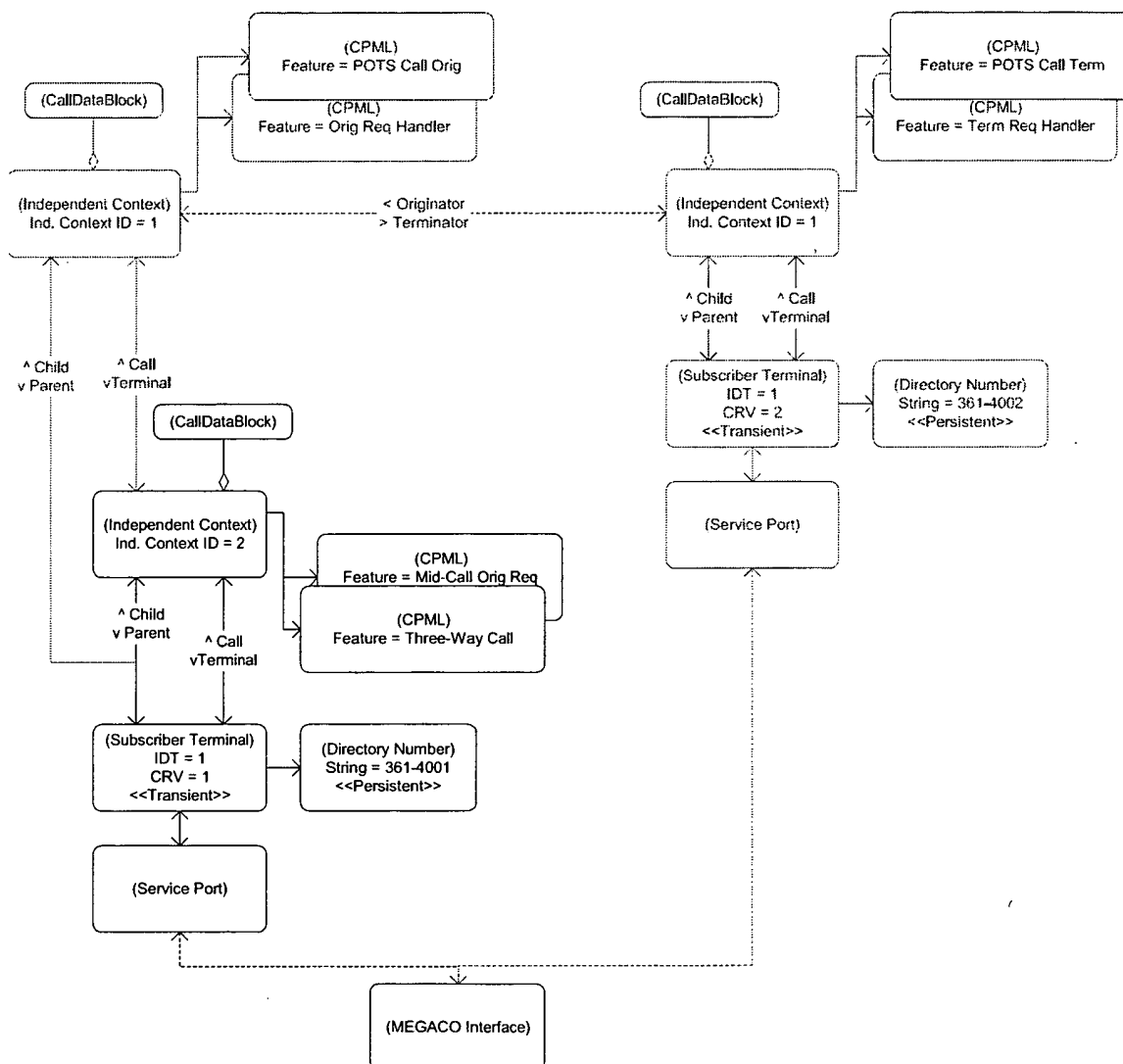


Figure 55



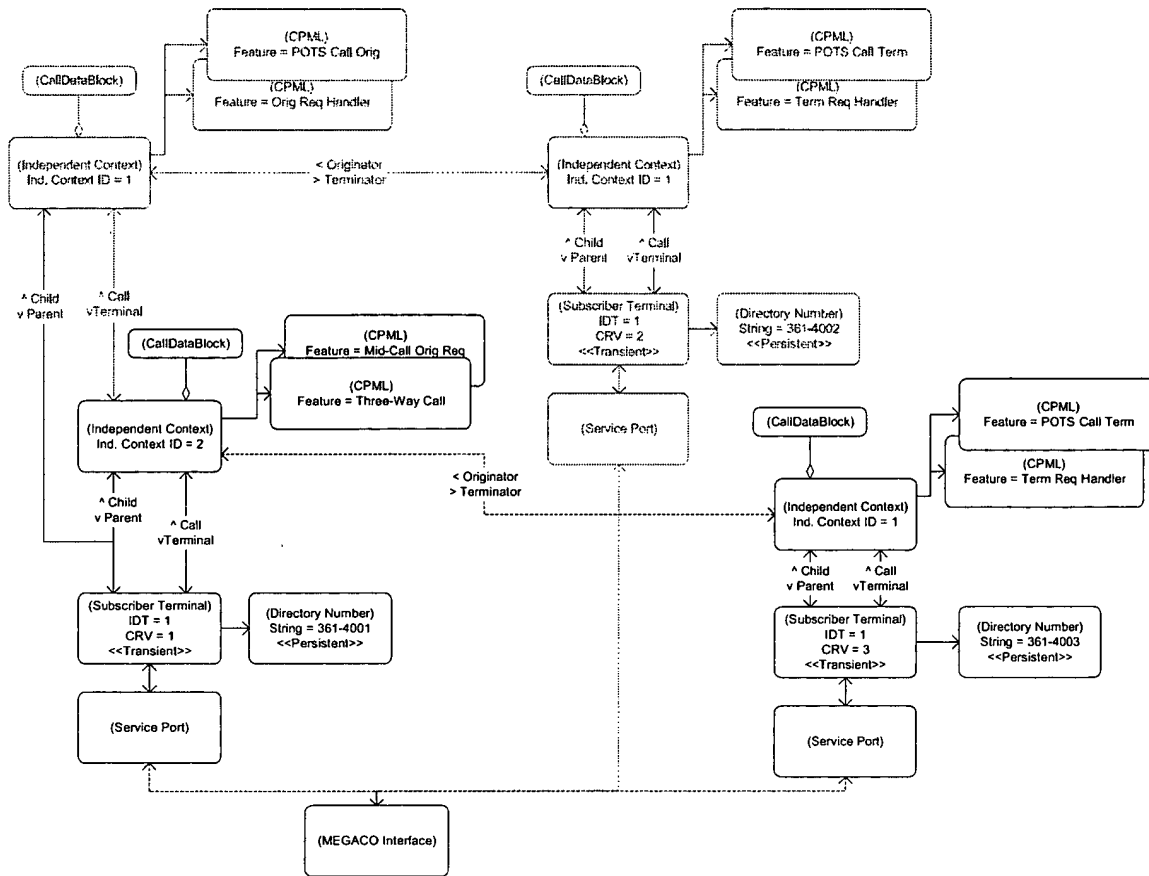


Figure 57

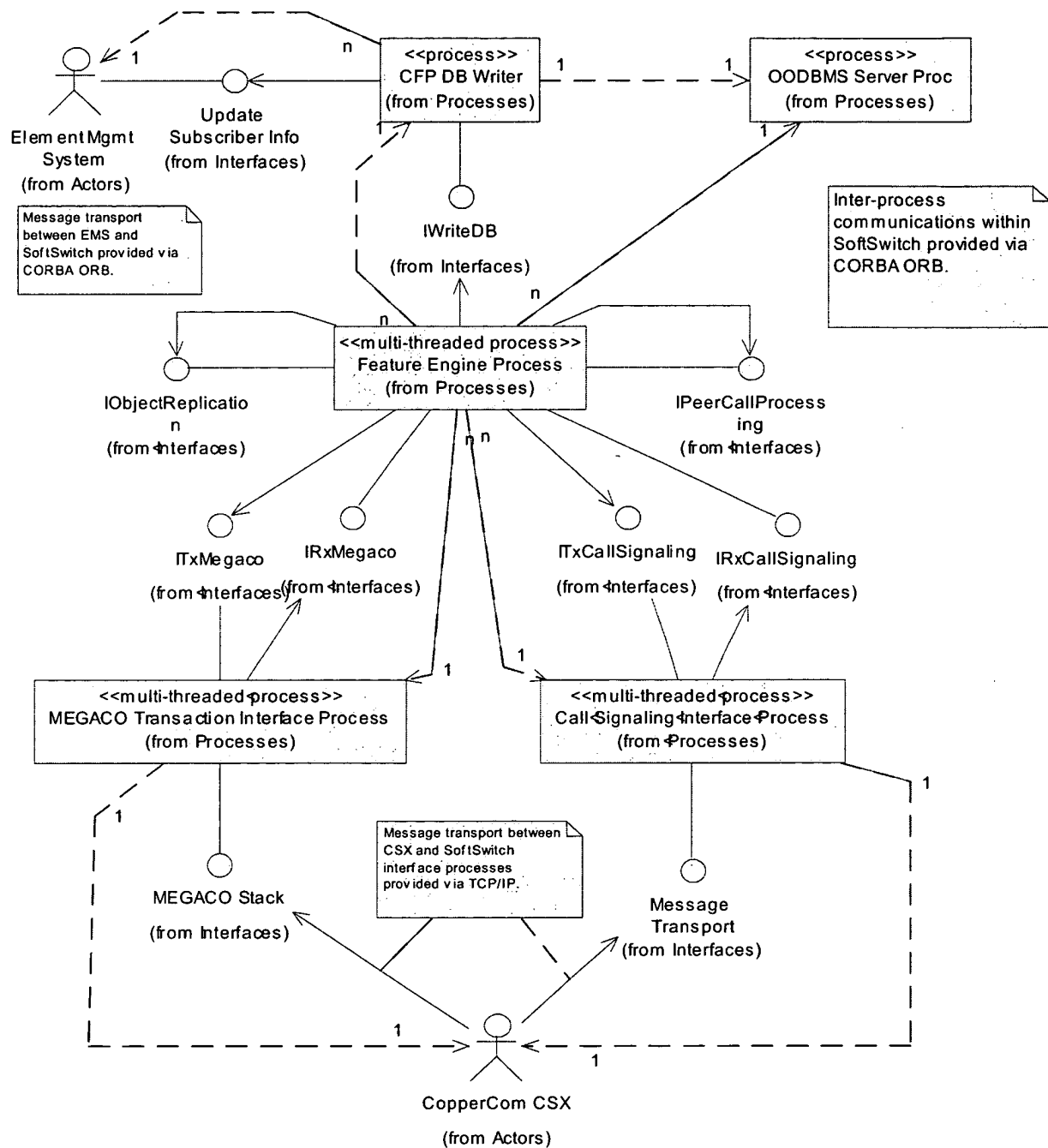


Figure 58